# Appendix C

Water Well Logs - Within 0.5 Miles of the Site

	4		F PUBLIC HEALTH
GEOLOGICAL SURVEY NO. WATER	WELL	AND P	UMP RECORD LOC. N-568, ACO PERMIT NUMBER  400-00 7 ELE-641
1 LOCATION OF WELL County Ottawa Township Name Fokton		Fraction	Section Number Town Number Range Number
istance And Direction From Road Intersection			3 OWNER OF WELL: Mr. Dale Langeland
50° East of 60th Avenue - North o			Address 15384 60th Avenue, Coopersvill
Street Address & City of Well Location 15384 60th	Ave., Co	opersvil	Address Same As Well Location? X Yes No
Locate with "X" in Section Below	Sketch Map:		4 WELL DEPTH: (completed) Date of Completion 240 ft. Oct. 26, 1984
			5 Cable tool Rotary Driven Dug
WE	).		Hollow rod Auger Jetted
	- K. f.	0-	6 USE: Domestic Type I Public Type III Public    Irrigation Type IIa Public Heat pump
	- <u> </u>		☐ Irrigation ☐ Type IIa Public ☐ Heat pump☐ Test Well ☐ Type IIb Public ☐
I MILE	7.5.4		7 CASING: Steel Threaded Height: Above/Battow
	THICKNESS	DEPTH TO	
2 FORMATION DESCRIPTION	OF STRATUM	BOTTOM OF STRATUM	weight in. to ft. depth Weight lbs./ft.
Cl ay	78	70	Grouted Drill Hole Diameter
-10	//0	78	B SCREEN:  No  No Installed
Sandy Clay & Stones	26	104	Type Diameter
Cl ay	31	135	Slot/Gauze Length
	J.L	133	Set betweenft. andft.  FITTINGS: K-Packer Lead Packer Bremer Check
Sand & Gravel	1	136	Blank above screen ft. Other
Clay & Gravel	13	149	9 STATIC WATER LEVEL:
/	1.3	149	ft. below land surface Flow  10 PUMPING LEVEL: below land surface
Gypsum	6	155	ft. after4 hrs. pumping at70G.P.M.
Gyp & Shale	5	160	ft. after hrs. pumping at G P.M.
Limestone, lost circulation	19	179	11 WELL HEAD COMPLETION:  Basement offset Approved pit
Marshall Sandstone		240	12 WELL GROUTED? No X Yes From 0 to 180 ft.
marguart pandstons	61	240	☐ Neat cement 🔼 Bentonite ☐ Other
			No. of bags of cement Additives
			13 Nearest source of possible contamination
			Type Septic Tank Distance 100 ft. Direction East
			Well disinfected upon completion?   Yes No  14 PUMP:
			Manufacturer's name Aermotor
			Model number A1 2-75 HP 3/4 Volts 280
/N			Length of Drop Pipe 70 ft. capacity 15 G.P.M.
}			TYPE: X Submersible Jet  PRESSURE TANK:
100			Manufacturer's name Amtrol  Model number WX 203 Capacity Gallons
15. Remarks, elevation, source of data, etc.			WELL CONTRACTOR'S CERTIFICATION:
		to the be	was drilled under my jurisdiction and this report is true ist of my knowledge and belief.
			mer Company, Inc. 0384
		Address	3311 Three Mile Rd., N.W., Grand Rapids,
674 0/04		Signed_	Oct Menhister Dec. 3, 1984
167d 2/84			AUTHORIZED REPRESENTATIVE

26-1 LOCAL HEALTH DEPT. COPY Authority: Completion: Penalty:

Act 388 PA 1978
Required
Conviction of a violation
of any provision is a
misdemeanor.
26-/

	MICHIGAN	DEPART	MENT O	F PUBLIC H	EALTH -	, , , , , , , , , , , , , , , , , , , ,	
GEOLOGICAL SURVEY NO.	WATER	WELL	AND PL	JMP REC	ORD		
1 000 1000 05 105						PERMIT N 70-03- (6	UMBER
1 LOCATION OF WELL County To	ownship Name		Fraction		Section Number	Town Number	Range Number
Ottawa	Polkton		SE 1/4	SE1/4 SEE	26	8 N/SX	
Distance And Direction From Road Inter	section	***************************************		3 OWNER OF	WELL:		A STATE OF THE PARTY OF THE PAR
About 0.5 Mi. Fa			field		Roy Vis		
Then about 175ft	. North of Gar	field		Address	5613 Gar	rileid ville, MI 49	hoh
				1	-		
Street Address & City of Well Location  Locate with "X" in Section Below	CI			Address Sa		ion? Yes	
Locate with X in section below	j j	etch Map:			1 MO. 1 DAY	ted YEAR New Well	1
		4		93 FT. 5 **Cable to			
	697	بد ند		Hollow r			∐ Dug □
w	3	4.7		6 USE: Dom		- Land	Type III Public
	€ 015 6	· 74		☐ Irrig.			Heat pump
<del> </del>	C	field	***************************************			Ilb Public	
	Gar	rieia		7 CASING: Diameter	Steel Threa	ided Height: Above	
1 MILE			_		Plastic Weld Weld <b>83</b> ft. depth	Surface	
2 FORMATION DESCRI	PTION	THICKNESS OF	DEPTH TO BOTTOM OF	I	tt. depth	Weight	lbs./ft.
		STRATUM	STRATUM	Grouted Dril	l Hole Diameter	Drive Shoe	<b>★</b> Yes
Sand and Hard Pan		5	5	1	o ft. depth	<u>.</u>	□ No
				8 SCREEN:	71. depuir	☐ Not Ins	stalled
Clay, blue		53	58	Type Sta	inless	Diameter 4**	
		20	00		10		
Clay, gray and gravel		22	80	Set between		ft. andf	
Sand, tan, very clean						Lead Packer B	remer Check  3" plug
Canal Carl Vory Crown				9 STATIC WATE	ove screen <u>2</u> ER LEVEL:	.ft. Other	Drag C
•	waterbearing	13	93		ft. below land	d surface	Flow
				10 PUMPING LE	VEL: below land s		
					ft. after hrs.	pumping at60	G.P.M.
					ft. after hrs.	pumping at	G.P.M.
				11 WELL HEAD	, Pitless a	dantas	oove grade
				COMPLETIO	N: Basemer		-
F. 0				12 WELL GROU		XYes From 3½	
٦ ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا				<b>—</b>			
" 是 66				☐ Neat cer			
				No. of bags o	of cement4 ce of possible cont	Additives	
				Type	Dista		rion
					d upon completion?	Yes No	
				Was old well p		🖈 Yes 🗌 No	
RECONSTRUCTION -				14 PUMP:	Not Installed	Pump Insta	llation Only
<u> </u>	•			Manufacturer	s name Gould	ls - Serial	#A087561_
List.				Model numbe	4 .	12 HP 1 Vol	
				Length of Dro		ft. capacity	<u>25</u> G.P.M.
				-	Submersible	Jet	
				PRESSURE TA Manufacturer	ank: 's name A. C	). Smith	
USE A 2ND SHEET IF NEED	DED			Model numbe	77 640	Capacity	44 Gallons
15. Remarks, elevation, source of da					ACTOR'S CERTIF		
				I was drilled unde est of my knowled		nd this report is true	
			M J	W Heckse	el Bros	70-0337	
				REGISTERED BUSIN	ESS NAME	REGISTRATION	
17. Rig Operator's Name:	7		Address	9175 CI	eveland, i	Vunica, MI 4	
William Hecks	seL		Signed _	Mille	JHECK	July Date Ma	y 9, 1991

D67d 2/89

Γ	MICHIGAN	DEPART	MENT OF	PUBLIC HEALTH	
GEOLOGICAL SURVEY NO.		_		JMP RECORD	PERMIT NUMBER
1 LOCATION OF WELL	Bent Alexander (1997)	5- 26	- 400-	0/2 .	
County	Township Name		Fraction	Section Number	Town Number Range Number
Distance And Direction From Road In	tersection TO H		1/4	1/4 1/4 00 0 3 OWNERTOF WELL:	N/S( ) H/VV
13 pot 14.1	a 4 Th Acc			CIFFORD	COUNTER.
				Address	THIS N.W.
	com and	,		6 min 425	on? Yes 🔀 No
Street Address & City of Well Locatin	on در Sk	etch Map:			
	. 1	·	_	90 FT 15 155	ed New Well Karlacement Well
	f'w, 10	6.1.0	12	5 Cable tool Rotary	
w E	1 4 6			Hollow rod Auger	
		·		6 USE: Domestic Type	
1	1 1			Test Well Type	,
	N			7 CASING: Steel Threa	
1 MILE		THICKNESS	<b>ДЕРТН ТО</b>	Plastic Welde	· Sanacen.
2 FORMATION DES	CRIPTION	OF STRATUM	BOTTOM OF STRATUM	in. to ft. depth	Weight lbs./ft.
	· ·			Grouted Drill Hole Diameter in. to ft. depth	Drive Shoe Yes
France de	op will			in. toft. depth	No No
P. J.	Come -	0		8 SCREEN: Type	Not Installed
Jes Might	- Company			1	. ,
pour CAL	<u> </u>			Slot/Gauzef	
	4				Lead Packer Bremer Check
				Blank above screen 9 STATIC WATER LEVEL:	ft. Other
				ft. below land	surface Flow
				10 PUMPING LEVEL: below land so	urface
				ft. afterhrs.	
				ft. after hrs.	pumping at G.P.M.
				11 WELL HEAD Pitless as	
				Basemen	
				No No	Yes From to ft.
				Neat cement Bento	onite Other
				No. of bags of cement	
				Type Distar	
				Well disinfected upon completion?	Yes No
				Was old well plugged?	Yes No
,	,			Manufacturer's name	Pump Installation Only
				Model number	
				Length of Drop Pipe	ft. capacity G.P.M.
1,	, <b>.</b>			TYPE: Submersible PRESSURE TANK:	
1 !				Manufacturer's name	Well Set Signer
USE A 2ND SHEET IF	7 7 7		10 1111 755	Model number	Capacity Gallons
15. Remarks, elevation, source of	f data, etc.		This wel	R WELL CONTRACTOR'S CERTIF Il was drilled under my jurisdiction ar	
Char De	11/10		to the b	est of my knowledge and belief.	
- hi	•			REGISTERED BUSINESS, NAME	REGISTRATION NO.
17. Rig Operator's Name:			Address		H 9 120
			Signed	AOTHORIZED REPRESENTATIVE	Date 9-18-91
D67d 2/89	7	<b>ζ-3</b>	•	ř j Au	thority: Act 368 PA 1978 mpletion: Required
				Pe	nalty: Conviction of a violation of any provision is a
	LC	OCAL HEA	LTH DEPT.	COPY	misdemeanor.



## **Water Well And Pump Record**



Completion is required under authority of Part 127 Act 368 PA 1978.

Failure to comply is a misdemeanor.

Import ID: Tax No: 70-05-26-226-016 Permit No: 05-411 County: Ottawa Township: Polkton Town/Range: Section: Well Status: WSSN: Source ID/Well No: 08N 14W 26 Active Well ID: 70000006762 Distance and Direction from Road Intersection: Well south of Randall Elevation: Latitude: 43.05674 Well Owner: Carol Pfahler Well Address: Owner Address: Longitude: -85.93006 140 W. Randall 140 W. Randall Method of Collection: GPS Std Positioning Svc SA Off Coopersville, MI 49404 Coopersville, MI 49404

Drilling Method: Cable Tool Pump Installed: Yes Pump Installation Only: No Well Depth: 132.00 ft. Well Use: Household Pump Installation Date: 10/10/2005 **HP:** 0.50 Well Type: Replacement Date Completed: 10/10/2005 Manufacturer: Goulds Pump Type: Submersible Casing Type: Steel - galvanized Height: 1.00 ft. above grade Model Number: 10GS-5412 Pump Capacity: 10 GPM Casing Joint: Threaded & coupled Drop Pipe Length: 63.00 ft. Pump Voltage: Casing Fitting: Drive shoe Drop Pipe Diameter: 1.25 in. **Drilling Record ID:** Draw Down Seal Used: Yes Diameter: 4.00 in. to 127.00 ft. depth Pressure Tank Installed: Yes Pressure Tank Type: Diaphragm/bladder Manufacturer: Well-Mate Borehole: 8.00 in. to 15.00 ft. depth Model Number: WM-14 Tank Capacity: 47.0 Gallons 4.00 in. to 132.00 ft. depth Pressure Relief Valve Installed: Static Water Level: 20.00 ft. Above Grade (Flowing) Depth to **Formation Description** Thickness Yield Test Method: Plunger Well Yield Test: Bottom 1.00 hrs. at 40 GPM Brown Topsoil 1.00 1.00 Brown Sand & Clay 5.00 6.00 Brown Clay 5.00 11.00 **Unrestricted Flow Rate:** Gray Clay 43.00 54.00 Screen Installed: Yes Filter Packed: No Sand & Gravel 4.00 58.00 Screen Diameter: 3.00 in. Blank: 2.00 ft. Above Gray Clay & Gravel 21.00 79.00 Screen Material Type: Stainless steel-slotted Gray Clay Soft 17.00 96.00 Gray Clay & Gravel Slot 20.00 Length Set Between 116.00 7.00 5.00 ft. 127.00 ft. and 132.00 ft. Sand & Gravel 2.00 118.00 Brown Sand Medium To Coarse 6.00 124.00 Brown Sand Fine To Medium Water Bearing 8.00 132.00 Fittings: Neoprene packer Well Grouted: Yes Grouting Method: Driven/dry grout **Grouting Material** Additives Geology Remarks: Bags Depth 4.00 ft. to 127.00 ft. Bentonite dry granular 4.00 None Wellhead Completion: Pitless adapter Nearest Source of Possible Contamination: Drilling Machine Operator Name: Gordon Hill Distance Direction Employment: Employee Type Pump Installer: Steven Hecksel Septic tank 60 ft. **Fast** Contractor Type: Water Well Drilling Contractor Reg No: 70-0337 Business Name: Hecksel Bros. Well Drilling Abandoned Well Plugged: Yes Business Address: 9175 Cleveland, Nunica, MI, 49448 Water Well Contractor's Certification This well was drilled under my supervision and this report is true to the best of my knowledge and belief. Casing Diameter: 3 in. Casing Removed: No Plugging Material: Bentonite chips/pellets No. of Bags: 7.00 Well Depth: 127 ft. Signature of Registered Contractor General Remarks: Old well-13ft E then 4ft N of NW corner of house. Removed 63 ft 1 1/4" drop pipe & packer jet & Pitless adapter 4 ft below grade

Other Remarks: EQP-2017 (4/2010)

Page 1 of 1

Contractor

10/17/2005 8:45 PM



Import ID:

Borehole:

## Water Well And Pump Record



Completion is required under authority of Part 127 Act 368 PA 1978. Failure to comply is a misdemeanor.

Tax No: 70-05-26-226-028 Permit No: 09-009 Township: Polkton County: Ottawa Section: Well Status: Source ID/Well No: Town/Range: WSSN: 08N 14W 26 Well ID: 70000008289 Distance and Direction from Road Intersection: Well is about .2 miles West of East St.; then about .14 Miles South of Randall. Elevation:

Well Owner: Jim Lown

Well Address: 150 W. Randall Coopersville, MI 49404

Pump Installation Only: No

Pump Type: Submersible

Pump Capacity: 12 GPM

Owner Address:

150 W. Randall

HP: 0.50

Pump Voltage:

**Drilling Record ID:** 

Coopersville, MI 49404

Drilling Method: Cable Tool

Longitude: -85.93077

Latitude: 43.05767

Well Depth: 134.00 ft. Well Use: Household

Method of Collection: GPS Std Positioning Svc SA Off

Well Type: Replacement Date Completed: 1/13/2009

Casing Type: Steel - galvanized Height: 1.00 ft. above grade Casing Joint: Threaded & coupled

Casing Fitting: Drive shoe

Diameter: 4.00 in. to 126.00 ft. depth

Pump Installed: Yes

Pump Installation Date: 1/14/2009

Manufacturer: Goulds Model Number: 10LS05421

Drop Pipe Length: 60.00 ft. Drop Pipe Diameter: 1.25 in.

Draw Down Seal Used: Yes Pressure Tank Installed: Yes

Pressure Tank Type: Diaphragm/bladder

Manufacturer: Flex-Lite-Flexcon

Model Number: FL

Black Topsoil Sandy

Brown Clay & Sand

Gray Clay & Gravel

Gray Clay & Gravel

Gray Gravel & Clay

Brown Sand & Clay

Brown Sand

Gray Clay Soft

Gray Clay Soft

Tank Capacity: 35.0 Gallons

**Thickness** 

1.00

11.00

6.00

27.00

25.00

38.00

6.00

6.00

6.00

8.00

Depth to

Bottom

1.00

12.00

18.00

45.00

70.00

108.00

114.00

120.00

126.00

134.00

Pressure Relief Valve Installed:

**Formation Description** 

Static Water Level: 26.00 ft. Below Grade

Well Yield Test: Yield Test Method: Plunger

Pumping level 28.00 ft. after 1.00 hrs. at 50 GPM

Screen Installed: Yes Filter Packed: No Screen Diameter: 3.00 in. Blank: 2.00 ft. Above Screen Material Type: Stainless steel-wire wrapped Set Between

Slot Length

7.00 8.00 ft. 126.00 ft. and 134.00 ft.

Fittings: Neoprene packer, Bottom plug

Well Grouted: Yes Grouting Method: Driven/dry grout **Grouting Material** Bags Additives Depth

Bentonite dry granular 5.00

None

Geology Remarks:

Wellhead Completion: Pitless adapter

Nearest Source of Possible Contamination:

Type

Plugging Material: Bentonite chips/pellets

Abandoned Well Plugged: Yes

Septic tank

Distance 120 ft.

Casing Removed: No

Direction North

**Drilling Machine Operator Name:** 

Employment: Employee

Gray Sand Medium Water Bearing

Pump Installer: Wm. Hecksel, III

Contractor Type: Water Well Drilling Contractor Business Name: Hecksel & Hecksel Water Well

Business Address: 19066 96th Avenue, Coopersville, MI, 49404

Water Well Contractor's Certification

This well was drilled under my supervision and this report is true to the best of

my knowledge and belief.

Well Depth: 130 ft.

Signature of Registered Contractor

Todd Hecksel

Reg No: 70-2260

General Remarks: Other Remarks: EQP-2017 (4/2010)

No. of Bags: 3.50

Casing Diameter: 2 in.

Page 1 of 1

Contractor

2/4/2009 8:50 PM



# **Water Well And Pump Record**



Completion is required under authority of Part 127 Act 368 PA 1978. Failure to comply is a misdemeanor.

Import ID: Tax No: Permit No: Township: Polkton County: Ottawa Town/Range: Section: Well Status: Source ID/Well No: WSSN: 08N 14W 26 Well ID: 70000002651 Distance and Direction from Road Intersection: 300' S of Randall St. 0.25 mi SE of Eastmanville St. Elevation: Latitude: 43.059742 Well Owner: Coopersville Auto Auction Well Address: Owner Address: Longitude: -85.932229 188 W Randall 188 W Randall Method of Collection: Address Matching-House Number Coopersville, MI Coopersville, MI

Drilling Method: Rotary Pump Installed: Yes Pump Installation Only: No Well Depth: 110.00 ft. Well Use: Irrigation Pump Installation Date: 11/23/1999 HP: 1.50 Well Type: New Date Completed: 11/23/1999 Manufacturer: Grundfos Pump Type: Submersible Casing Type: PVC plastic Height: Model Number: 25s15-90 Pump Capacity: 25 GPM Casing Joint: Other Drop Pipe Length: 60.00 ft. Pump Voltage: Casing Fitting: Unknown Drop Pipe Diameter: Drilling Record ID: Draw Down Seal Used: No Diameter: 5.00 in. to 100.00 ft. depth Pressure Tank Installed: Pressure Tank Type: Unknown Manufacturer: Other Borehole: 8.50 in. to 110.00 ft. depth Model Number: wx302 Tank Capacity: Pressure Relief Valve Installed: Static Water Level: 15.00 ft. Below Grade Depth to **Formation Description Thickness** Well Yield Test: Yield Test Method: Air Bottom 4.00 hrs. at 30 GPM Sand & Gravel 6.00 6.00 Brown Clay 39.00 45.00 Sand 20.00 65.00 Screen Installed: Yes Filter Packed: Yes Gray Clay 15.00 80.00 Screen Diameter: 4.50 in. Blank: \*u Sand 30.00 110.00 Screen Material Type: Slot Set Between Length 12.00 10.00 ft. 100.00 ft. and 110.00 ft. Fittings: Unknown Well Grouted: Yes Grouting Method: Unknown **Grouting Material Bags** Additives Bentonite slurry 0.00 ft. to 90.00 ft. 0.00 None Geology Remarks: Wellhead Completion: Pitless adapter, 12 inches above grade Nearest Source of Possible Contamination: Drilling Machine Operator Name: Curtis Masunas Type Distance Direction Employment: Employee Unknown Contractor Type: Water Well Drilling Contractor Reg No: 41-0384 Business Name: Raymer Company Inc Business Address: Marne, MI, 49435 Water Well Contractor's Certification This well was drilled under my supervision and this report is true to the best of my knowledge and belief. Signature of Registered Contractor Date General Remarks: pressure tank capacity not logged screen fittings: glued screen type: PVC Other Remarks: Casing Joint:glued, Tank Manufacturer:Amtrol

EQP-2017 (4/2010)

Page 1 of 1

State of Michigan

5/25/2000 1:24 PM

			r	/ /			
	GEOLOGICAL SURVEY SAMPLE No.		:	/-/			
	Well No 700212	٧٦٥5	WATER	WELL RI	ECORD	MICHIGAN DEPA	PTMENT
	1 LOCATION OF WELL	Loc. E-1,563	,475 ACT 2	194 PA 1 -OC. N-	965 572,550 ELE-661	OF PUBLIC HEA	
ت	Ottawa	Folkton		Fractio	NU14NU14 Section Number 27	}	Range Number
	Distance And Direction from Road I				3 OWNER OF WELL	8 N/s.	
		7200 Arthur	~ S+ _C		Address <del>7200</del> 1133	lder Post B	
	Street address & City of Well Locati	on Villt, Mich	nigan	oopers-	Nun	ica, Michig	
	A in section delo	w Sketc	h Map:		4 WELL DEPTH: (completed) D	ate of Completion	
				1.	5 Cable tool X Rotal	lay 31, 197	
	w		·		Hollow rod Jette	=	Dug
			in the same of	•	<b></b>	c Supply	Industry
				targeron .		onditioning <b>T</b>	Commercial
į	1 MILE .	• ·	***.		7 CASING: Threaded Welded Diam.		
	2 FORMATION		THICKNESS OF	DEPTH TO	4 in. to 203 ft. Depth	Surface Weight	
			STRATUM	STRATUM	in. toft. Depth	1 2	1
	Clay		20	20	8 SCREEN: NONE Type:	<b>0</b> :	
	Clay & Gravel				Slot/Gauze	Length	
ľ	OTEN & GLAVEI		60	80	Set between ft. and Fittings:		
ŀ	Clay		50	130			
	Sand & Gravel mixed	ਲ/c1 av	25	155	9 STATIC WATER LEVEL  48 ft. below land surf.		
( (					10 PUMPING LEVEL below land su	ırface	
مر	Clay & Gravel		39	194	ft. after _4 hrs. pu	mping — 50	g.p.m.
-	Michigan lime		9	203	ft. after hrs. pu	mping	g.p.m.
	MARSHALL		27		11 WATER QUALITY in Parts Per M	illion:	
			-21	230	Iron (Fe) Chloric	les (CI)	
H					HardnessOther _ 12 WELL HEAD COMPLETION:		
-					□ Pitless Adaptor		
					Well Grouted? Y Yes No		
					Neat Cement Bentonite Depth: From Surface t. to	· U	
$\vdash$					14 Nearest Source of possible cont	amination	
				ĺ	feet Direction Well disinfected upon completio	n Dves DNo	Туре
					Manufacturer's Name		E Z
-					Model Number 5.75 1/-/2 Length of Drop Pipe 56 ft. ca		250
					Type: Submersible		
					Jet	Reciprocating	
16	Remarks, elevation, source of da		11	7 WATER ME	ELL CONTRACTORIS OFFICE	7100	
				This well v	ELL CONTRACTOR'S CERTIFICA was drilled under my jurisdiction an of my knowledge and belief.	IIUN: nd this report is tr	ue
			I		Daymon Com-		

100M (Rev. 12-68)

GEOLOGICAL SURVEY SAI	MPLE No.	<b>A</b>	21-2		
1 + 60	1 1970	WATER	WELL RE	CORD Not weeder	MICHIGAN DEPARTMENT
1 LOCATION OF WEL	Township Name		Fraction		PUBLIC HEALTH
Distance And Direction &	rom Boad Intersections	η-	Nul	VEWNEW SIZ	X N/k. 14 SE/W
Then 110 H	rom Road Intersections Arm	Thur ST Ave	+ 68 AL	3, OWNER OF WELL:	finang Co
Street address & City of	Ave CDIOR	150.11.	- m	170 Box 43	$30 \frac{1}{100 \times 100}$
Locate with "X" in se	arthu	ketch Map:	e III c	4 WELL DEPTH: (completed)	gate of Completion
	Armu	21		5 07	(c) 14 - (c) 4 Driven □ Dug
	<u> </u>	5 6		Hollow rod Je	tted Bored
	10 Ft 8	se =			blic Supply Industry r Conditioning X Commercial
	<u> </u>	4 v		Test Well  7 CASING: Threaded X Weld	
1 MILE		THICKNES	S DEPTH TO	Stam.	Surface 34
2 FO	RMATION	OF STRATUM	BOTTOM OF	1 3 in. to 246 ft. Der	pth   Weight/0, \$\footnote{X}\] No \[ \begin{array}{c} \text{Drive Shoe? Yes \( \overline{X} \end{array}\) No \[ \end{array}\]
Sand -	Yellow	4	4	8 SCREEN: Type: None	
Clau - Bl	110	151	155	Slot/Gauze	Length
Class	4 C	1	1	Set betweenft. and Fittings:	ft.
119 39	11d = Grave	,		9 STATIC WATER LEVEL	
Very Sot	T - mudde	1 60	2/5	58 ft. below land s	
Lime Noc	k + Shale	36	341	58 ft. after Le hrs.	
Sandston	e waterbe	oring 39	250	ft. after hrs.	. pumping g.p.m.
				11 WATER QUALITY in Parts Pe	er Million:
				HardnessOther	☐ In Approved Pit
		_		13 Well Grouted? Yes No	12" Above Grade
				Neat Cement Bento	
				Depth: From ft.  14 Nearest Source of possible of	toft.
				/// feet // Direct Well disinfected upon comple	
				15 PUMP:	Not installed
				Manufacturer's Name (17)  Model Number / 1 = 1	Uds O_HPVolts <u>230</u>
				Length of Drop Pipe	
				Type: 🔀 Submersible	Reciprocating
	HEET IF NEEDED				
16 Remarks, elevation, s	ource of data, etc.		This well	ELL CONTRACTOR'S CERTIFI was drilled under my jurisdiction	
(over)			REGIS	HCCKS PLOS  TEREO BUSINESS NAME	0337
, ,			Address	8976 - 96 TA	ve Coopersuille
				Merlo J Hecks	1 Date 2-20 70
067d 100M (Rev. 1	2-68)			UTHORIZED REPRESENTATIVE	

LOCAL HEALTH DEPT. COPY

100M (Rev. 12-68)

Raymor Company, Inc.

Address 3311 Three Mile Rd. N.W. Grand Rapids. MJ

Date Oct. 31, 1980

	GEOLOGICAL SURVEY SAMPLE No.		٦	27-4				
				WELL DE	6000	المحادث	<u> </u>	
			WAIEK	WELL RE	CORD	2400 (625	MICHIGAN DEP	ARTMENT
	1 LOCATION OF WELL						OF PUBLIC HEA	4LTH
_		Township Name		Fraction		Section Number	Town Number	Range Number
	OTTAWA	POLK	TON	14	14 14	29	TO MIS	1. 14 EKW!
	OTTAWA Distance And Direction from Road 1/9 1911 A F 15 17 5	Intersections _	1970	77 KI-	3 OWNER OF	"サンドIC	/ / I F3	
	1/9 1/1/2 1-19		166/H	15		HONFE	E LH	200
	I .		17 11 177 6	<i>/</i> /(	Addres &	CLIF	F 5/	
	Street address & City of Well Locate  Locate with "X" in section below	tion UN	Sketch Map:		CANA	TOHARI	E N :-	w York
	Locate with "X" in section belo	ow.	Sketch Map:		4 WELL DEPTH	H: (completed)	Daté of Completio	n / C/ X //
					248	ft3	LJUNE	- 7×
	<b>I</b>				5 \ Cable to	ool Rota		
					Hollow		=	
	1"				6 USE: Dor		ic Supply	Industry
					☐ trri		Conditioning	Commercial
	, , , , , , , , , , , , , , , , , , , ,				Tes	t Well		
					7 CASING: TH	readed 🗓 Welde	d Height: Ab	→ve/Below
	1 MILE				1		Surface	
	2 FORMATION	V	THICKNES:	BOTTOM OF	#_in. to	194ft. Dept	h   Weight/	/_ ibs./ft.
		•	STRATUM		_3_ in. to	ft. Dept	h Drive Shoe	? Yes 💟 No 🗌
	$1 - O\theta - At$	7			8 SCREEN:			
	Le lue	· seg	600	60	Type:	)	_ Dia.:	
	$A \cap A \cap A$	T/0	177.0	1 14	Slot/Gauze	Ud K V	Dia.: VLengti	
	Chang gre	ive &_	15	135	Set between	fo and	ft.	
	$1  a \cap c \cup 1 \cdot 1 \circ$	F ,	200	1 Immel	Fittings:	_	"	
	CE Y	-cones	<u></u>	110	36	FT 3	" LINE	= &
		- Dual	1 / 24	16/11				l
	him of	weryer	ay of	177	10 BUMBING	ft. below land su EVEL below land	rface	
(	$\mathcal{L}$	//	1 9 19	1221	į.			
	, the contract of the contract	0		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	ft. after hrs.		g.p.m.
		-1/4	27'	248	4			
	3000	<del>von</del>	31	010		ft. after hrs.   LITY in Parts Per		g.p.m.
					1			
		A-144		<del> </del>		ON PN	Clara	
					Hardness _	Other		
					12 WELL HEAD	COMPLETION:	In Approved Pi	t
					[Y] Pit	less Adapter [	12" Above Gra	
	•					d? Yes No		
-		777777			☐ Neat Ce	ement Benton	ite 🔲	
					Depth: Fro	חft. ו	o ft.	
-						rce of possible co		<b></b>
							on _ 5 /= P	
			-			cted upon complet	ion Yes N	٥
					15 PUMP:	, D N	ot installed	
ŀ				ļ				
							HP / Volts	
H						-	capacity_20G.	Р.М.
					Type: 🌠 S	ubmersible		
+		***************************************		<b> </b>	ار [	et	Reciprocating	
	USE A 2ND SHEET IF NI	EEDED						ł
-	16 Remarks, elevation, source of			17 WATER W	IELL CONTRAC	TOR'S CERTIFIC	`ATION:	
				This well	was drilled und	er my jurisdiction	and this report is	s true
				to the bell	it of the knowled	lgs/and belief	.49	395
		r**		REGIS	TENED BUSINESS	NAME /	BEDISTRAT	rjon no.
1				7744	11 W 200	rome &		
				Course	o tick	- Such	<u> </u>	<del>-7</del>
				Signed	/1 11	i li Stick	for 21	June 78
_	100M (Rev. 12-69)			Jigii Pu	AUTHORIZED REPR	FSENTATIOE	Date	

GEOLOGICAL SURVEY SAMPLE No.	·, <i>C</i> /	′-5	
	Wated !	WELL RE	
1 LOCATION OF WELL	ACT 25	94 PA 191	65 OF
1 LOCATION OF WELL Township Name		Fraction	
Ottawa Polkton			SENNEN 27 7 N/S. 14 E/W
Distance And Direction from Road Intersections			3 OWNER OF WELL:
About I'm Elk. west of both			Address Polkton Township Hall
Then about 190 ft. South of	Artour	⇒t,	1) - + i C +
Street address & City of Well Location Arthur St Locate with "X" in section below Sketch	Map:	Sille	4 WELL DEPTH: (completed) Date of Completion
200			280 ft. 8-15-80
			5 Cable tool Rotary Driven Dug
w			Hollow rod Jetted Bored 5
			b USE:
	877		Test Well
1 MILE	j.		7 CASING: Threaded Welded Height: Above/Below
	THICKNESS	DEPTH TO	Surface 3 /2 ft.
2 FORMATION	OF STRATUM	BOTTOM OF STRATUM	4 in. to 22 ft. Depth Weight 10.3 lbs./ft. 2 in. to 13 e 1 ft. Depth Drive Shoe? Yes No
			8 SCREEN:
Fill Sand, gratelly	7_	7	Type: Dia.:
clay, yellow	11	12	Slot/GauzeLength
		L-5	Set betweenft. andft.  Fittings:
clay blue	119	137	
Cicalel and old Mineral	713	a,15 ,	9 STATIC WATER LEVEL  6 8 ft. below land surface
Gradel gray and clay the mind		(A) )	10 PUMPING LEVEL below land surface
Ame rock	21	236	ft, after hrs. pumping 60 g.p.m.
mershall rock	44	ಎ80	ft. after hrs. pumping g.p.m.
The state of the s			11 WATER QUALITY in Parts Per Million:
			Iron (Fe) Chlorides (CI)
			Nada
			12 WELL HEAD COMPLETION: In Approved Pit
			☑ Pitless Adapter ☐ 12" Above Grade
			13 Well Grouted? Yes No
	-		Neat Cement Bentonite
			Depth: Fromft. toft.  14 Nearest Source of possible contamination
·			75 feet north Direction Septic System Type
			Well disinfected upon completion ☑ Yes ☐ No 15 PUMP:
		Ì	Manufacturer's Name (South)
			Model Number 35EL-20/12HP 2 Volts 230
			Length of Drop Pipe 105 ft. capacity <u>30</u> G.P.M.
			Type: Submersible
			Jet Reciprocating
16 Remarks, elevation, source of data, etc.		7.111.755	STIL CONTRACTORIS OFFICE - TO STILL TO
		This well	ELL CONTRACTOR'S CERTIFICATION: was drilled under my jurisdiction and this report is true
	İ		tof my knowledge and belief.  1) Heaksel Pros, 70-0887  [FRED BUSINESS NAME REGISTRATION NO.
1			
		Address _	18976 96th Ne Confersulle
	į	Signed T	MIL THE Date 9-21-80
D67d 100M (Rev. 12-68)	27-	5	UTHORIZED REPRESENTATIVE

70022701	ATER WE	LL RECO	RD WCWCAN OFFICE
Well No. MAY 5 1907 \ = E: 156610	ACT 294	RA 1965	RD MICHIGAN DEPARTMENT
	Lo		
County Strawa Polpton	N	Foster s	SENW Section No. Town Range
itance And Direction from Road Intersections	NER No		3 OWNER OF WELL: James Preston
Corner of Atite (ald 27) and 6 \$		1 6	Address. 168 Treston
Street address & Giry of Well Location 75+	t end	468	Corpersville mich
2 FORMATION	THICKNESS	DEPTH TO BOTTOM OF	4 WELL DEPTH: (completed) Date of Completion
	STRATUM	STRATUM	5 Coble tool X Rotary Driven Dug
184 ht, Clay			☐ Hollow rod ☐ Jetted ☐ Bored ☐ ☐
48 J. F. Clay & grav	c f		6 USE: Domestic Public Supply Industry   Irrigation Air Conditioning Commercial
25 pt 11 4			Test Well
and it is the state of the stat			7 CASING: Threaded Welded Height: Above/Below
28 Fite Green MARINA	166		ft. Depth   surfaceft.   Weightlbs/ft.
			in. toft. Depth   Drive Shae? Yes No
Ā			8 SCREEN:
			Type: Trock well Dia.
			Slot/GouzeLength
			Set betweenft. andft.
			Fittings:
			9 STATIC WATER LEVELft. below land surface
			10 PUMPING LEVEL below land surface
			ft. afterhrs. pumpingg.p.m.
			ft. afterhrs. pumpingg.p.m.
			11 WATER QUALITY in Parts Per Million:
			Iron (Fe)Chlorides (CI)
,			Hardness
			12 WELL HEAD COMPLETION: In Approved Pit
·			13 GROUTING:
			Well Grouted? Yes No
			Material: Neat Cement
			Depth: Fromft. toft.
			14 SANITARY:
			Nearest Source of possible contamination feetDirectionType
			Well disinfected upon completion Yes No
			15 PUMP:
			Manufacturer's Name HUKE
			Length of Drop Pipeft. capacityG.P.M.
			Type: Submersible Reciprocating
16 Remarks, elevation, source of data, etc.		17 WATER W	☐ Jet ☐ Reciprocating  /ELL CONTRACTOR'S CERTIFICATION:
		This well	was drilled under my jurisdiction and this report is true
		to the bes	it of my knowledge and belief.
	X	MUSTLE	GISTERED BUSINESS NAME RECESTATIONS.
Lagrana ∓ mark 175		Address	of a gothere to a the will
•		76	c. 200 - cor Cooperavite, Theof
		3igned 7	Michael Conclusion 11 19.4-5-67
D67D 100M 6-66	2 7	1-6	11 0-110000

GEOLOGICAL SURVEY NO.		WELL	AND DI	UMP RECORD
1 LOCATION OF WELL	<del>-</del>	PART 127	7 ACT 368. P	A 1978 PERMIT NUMBER
County	Township Name Folkton		Fraction 1/4	Section Number Town Number Range Number
Distance And Direction From Road  150° East of 68t	_		/4	3 OWNER OF WELL Ottawa County Farms
Street Address & City of Well Loci	ation	ikeron Man		Address Garfield & 68th Avenue, Coopersville, Michigan Address Same As Well Location?   Address Same As Well Location?
W	68 TM MUC	Z-96		300 ft. Nov. 24, 1982  5 Cable tool X Rotary Driven Dug Hollow rod Auger Jetted  6 USE: Domestic Type i Public Type III Public Heat pump Test Well Type IIb Public X Commercial  7 CASING Diameter X Steel Plastic Welded Surface ft.
2 FORMATION DE	SCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	in tott. depthin. toft. depth Grouted Drill Hole Diameter
Brown Sandy Clay		7	7	
Brown Clay, solic	i	128	135	Type Diameter
Gray Clay w/littl	e Gravel	63	198	Slot/Gauze   Length   ft.
Limestone (Caproc	ek)	5	203	FITTINGS: K-Packer Lead Packer Bremer Check Blank above screen ft. Other  9 STATIC WATER LEVEL.
<u>Marshall Sandstor</u>	ne (Gray)	97	300	
				ft. after hrs. pumping at G.P.M.
				11 WELL HEAD COMPLETION Basement offset Approved pit
	v-			12 WELL GROUTED? No XX Yes From 0 to 205 ft.
				Neat cement
				No. of bags of cement Additives  13 Nearest source of possible contamination
				Type Septic Tank Distance 100 !! Direction
				14 PUMP: Not Installed Pump Installation Only
				Manufacturer's name — Red Jacket
		·		Model number \$\frac{100\text{N1} - 8CC}{100\text{N1} - 8CC} \text{ HP} \frac{1}{1} \text{ Volts} \frac{230}{100\text{G.P.M.}} \text{Length of Drop Pipe \frac{1}{1}30} \text{ ft. capacity \frac{20}{20} \text{ G.P.M.}} \text{TYPE: \frac{1}{1}\$ Submersible \frac{1}{1} Jet \frac{1}{1}\$
				TYPE: Submersible Jet
USE A 2NO SHEET I			16. WATER	Model number <u>IX 251</u> Capacity Gallons WELL CONTRACTOR'S CERTIFICATION:
Water Test 42 grains hard 1.5 p.p.m. Iron NO Chlorides			This well to the be	was drilled under my jurisdiction and this report is true st of my knowledge and belief  EGISTERED BUSINESS NAME REGISTRATION NO.  3371—Three Mife Rd., N. W. Grand Rapids, M. G
67d (Rev 10-80)		27-	7	AUTHORIZED REPRESENTATIVE

MICHIGAN	DEPART	MENT OF	PUBLIC HEALTH
GEOLOGICAL SURVEY NO. WATER	WELL	AND PL	JMP RECORD
			PERMIT NUMBER Parcel 70-05-27-400-010
1 LOCATION OF WELL County Township Name		Fraction	Section Number Town Number Range Number
Ottawa Polkton		1/4	1/4 1/4 27 8 N/8 14 E/W
Distance And Direction From Road Intersection			3 OWNER OF WELL:
1/4 Mile South of I-96 - 100' East	of 68t	h Street	i
			Address 15550 68th Street, Coopersville
Street Address & City of Well Location 15550 68th St	. Coop	ersville	Address Same As Well Location? 🔀 Yes 🗌 No
	cetch Map:		4 WELL DEPTH: Date Completed New Well
			260 FT.   10   28   93   Replacement Well
	المرود بالمتحديث		5 Cable tool Kary Driven Dug
			Hollow rod Auger Jetted
<b> </b> *     <del> </del>              -	•		6 USE: 🔀 Domestic 🔲 Type I Public 🔲 Type III Public
1			☐ Irrigation ☐ Type IIa Public ☐ Heat pump
			7 CASING: Steel Threaded Height: Above/Below
1 MILE			X Plastic X Welded I o . 1
CORMATION DESCRIPTION	THICKNESS	DEPTH TO	5 in. to 200 ft. depth   Weight 2.8 lbs /ft
2 FORMATION DESCRIPTION	OF STRATUM	BOTTOM OF STRATUM	in. toft. depth
			Grouted Drill Hole Diameter Solonia in. to 200 ft. depth Drive Shoe Yes No
Clay	194	194	in. toit. depth
7.6	,	201	A Not installed
Limestone		201	Type Diameter
Marshall Sandstone	59	260	Slot/Gauze   Length
THE STREET STREET			FITTINGS: K-Packer Lead Packer Bremer Check
			Blank above screenft. Other
			9 STATIC WATER LEVEL:
			ft. after <b>4</b> _ hrs. pumping at <b>60</b> G.P.M.
			ft. afterhrs. pumping at G.P.Mft. afterhrs. pumping at G.P.M.
			Tito pointing of or the
			11 WELL HEAD COMPLETION: Pitless adapter 12° above grade Basement offset Approved pit
			12 WELL GROUTED? No X Yes From 200 to surfac
			X Neat cement Bentonite Other
			No. of bags of cement30 Additives
			13 Nearest source of possible contamination
5			Type Septic Distance Direction North
HEA!			Well disinfected upon completion?
堂 2			Was old well plugged? Yes No
PA PAL			Not installed Pump installation Only
			Manufacturer's name
RECEIVED SHVIROIMENTAL 94 JAN 10 PM			Length of Drop Pipe 147 ft. capacity 40 G.P.M.
요 <b></b> 다 라			TYPE: Submersible Jet
\$ 5			PRESSURE TANK: Manufacturer's name Amtrol
			177 250
USE A 2ND SHEET IF NEEDED			Model number WX 35U Capacity Gallons WELL CONTRACTOR'S CERTIFICATION:
15. Remarks, elevation, source of data, etc.		This wel	I was drilled under my jurisdiction and this report is true est of my knowledge and belief.
			Raymer Company, Inc. 0384
7. Rig Operator's Name:			REGISTERED BUSINESS NAME REGISTRATION NO.  3311 Three Mile Rd., N, W., Grand Rapids
. The Operator's Home.			:
D67d 2/89		Signed _	AUTHORIZED REPRESENTATIVE Date Dec. 8, 1993

Authority: Completion: Penalty: Act 368 PA 1978
Required
Conviction of a violation
of any provision is a
misdemeanor.

LOCAL HEALTH DEPT. COPY

D67d

100M (Rev. 12-68)

Address 12715 Frato Gue Coopers 1 112

OLOGICAL SURVEY SAMPLE No.		¥,	27-10	
		WATER N	WELL REG	
LOCATION OF WELL	nship Name		Fraction	PUBLIC HEALTH    Section Number   Town Number   Range Number
Ottawa	Polkton		i i	
stance And Direction from Road Inte			1/4	12 owners or well-
230° W. of 68th Avenu				Address River Ridge Farms
reet address & City of Well Location	15505 6044	C		15585 68th Ave., Coopersville, Michig
Locate with "X" in section below	Sketc	h'Wab:	sville	4 WELL DEPTH: (completed) Date of Completion
	37	1		260 ft. May 24, 1979
<u></u>	26	hi!		5 Cable tool Rotary Driven Dug
		Tary.		Hollow rod Jetted Bored
	_	15		6 USE: Domestic Public Supply Industry
	- 0-	7.		Irrigation Air Conditioning Commercial
		2		Test Well X Farm
S .		6		7 CASING: Threaded Welded Height: Above/Balow
1 MILE		THICKNESS	DEPTH TO	Surfaceft.
FORMATION		OF STRATUM	BOTTOM OF	4 in. to 205 ft. Depth   Weight 11   Ibs./tt.  in. to ft. Depth   Drive Shoe? Yes 🛣 No 🗌
		JIMAIUM	JIRATUM	8 SCREEN:
C1 ay		93	93	Type: NONE Dia.:
				Stot/GauzeLength
Clay & Gravel		4	97	Set between ft. and ft.
				Fittings:
Clay		22	119	
			_	9 STATIC WATER LEVEL
Clay & Gravel		74	193	
Lime		12	205	
LINE		12	203	gp.iii
Marshall Sandstone		55	260	ft. after hrs. pumping g.p.m.
				11 WATER QUALITY in Parts Per Million:
and the state of t				Iron (Fe) 1.0 Chlorides (CI)
				43 cm out
		<del> </del>		Hardness 43 grs Other  12 WELL HEAD COMPLETION:   In Approved Pit
• •				X Pitless Adapter 12" Above Grade
	, , , , , , , , , , , , , , , , , , , ,			13 Well Grouted? X Yes No
				Neat Cement 🔀 Bentonite
A				Depth: Frosurface ft. to 205 ft.
				14 Nearest Source of possible contamination
A. W. Carlotte Communication of the Communication o				170 feet E. Direction Sentic Tank Type
With an annual and the state of				Well disinfected upon completion X Yes No
				Not installed  Manufacturer's Name Red Jacket
				Model Number 300T4-11DC HP 3 Volts 230-3 pt Length of Drop Pipe] 30 ft. capacity 2-G.P.M.
				Type: X Submersible
				Jet Reciprocating
				<u> </u>
USE A 2ND SHEET IF NEED				VELL CONTRACTOR'S CERTIFICATION:
Remarks, elevation, source of da				

100M (Rev. 12-68)

D67d

SESESSIONE SAMPLE NO.	*. *•	5.	
Well No 700212703	WATER	WELL RE	CORD MICHIGAN DEPARTMENT
1 LOCATION OF WELL Loc. E 1, 566	,300 <sup>ACT</sup> (	حود بي -	
Ounty Township Name	-	Fraction	Section Number   Town Number   Range Number
Distance And Direction from Road Intersections		DW %5	W 45 € 4 27   2 N/S.   14 €/W.    3 OWNER OF WELL:
Hobert 300 ft wast of with A	de a Gart	Freld	Address Garge Hardleyton
Then about 100 f+ north of the			15220 6 8th Auc
Street address & City of Well Location 15 220 :	<u>si CHI, ∯sjc</u> cetch Man*	Cary (1.1)	4 WELL DEPTH: (completed) Date of Completion
			257 ft. \$-13-20
	300 ft 30		5 Cable tool Rotary Driven Dug
			Hollow rod Jetted Bored
	<del>را</del> 10		6 USE: Domestic Public Supply Industry
			☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐
	Garfiel	d	7 CASING: Threaded Welded Height: Above/Below
1 MILE	THICKNESS	DEPTH TO	Surfaceft.
2 FORMATION	OF STRATUM	BOTTOM OF	# in. to #200 ft. Depth   Weight lbs./ft in. to ft. Depth   Drive Shoe? Yes \[ \] No \[ \]
			8 SCREEN:
Adirt black	//	1	Type: Ninc Dia.:
clay, yellow	11	10	Slot/Gauze Length
Chay, y PHS:S		12	Set between ft. and ft. Fittings:
ctay blue	166	113	
•			9 STATIC WATER LEVEL
clay blue a gradel mixed	<u> </u>	-501	10 PUMPING LEVEL below land surface
TIME FOCK	20	,22 /	ft. afterhrs. pumping62 g.p.m.
marshall rock	26	257	ft. after hrs. pumping g.p.m.  11 WATER QUALITY in Parts Per Million:
			Iron (Fe) Chlorides (CI)
A.2			
			12 WELL HEAD COMPLETION: In Approved Pit
			Pitless Adapter  12" Above Grade
			13 Well Grouted? Yes No
			Neat Cement Bentonite
			Depth: Fromft. toft.  14 Nearest Source of possible contamination
			50 feet N Direction Sept. C Tearle Type
			Well disinfected upon completion 🔀 Yes 🗌 No
			15 PUMP: Not installed
			Manufacturer's Name ( ) NAME AND STATE OF THE MANUFACTURE OF THE MANUF
			Length of Drop Pipe 105 ft. capacity 12 G.P.M.
			Type: 🔀 Submersible
			Jet Reciprocating
USE A 2ND SHEET IF NEEDED			Pump Social # FD69212
16 Remarks, elevation, source of data, etc.			VELL CONTRACTOR'S CERTIFICATION:
I ·		to the be	was drilled under my jurisdiction and this report is true st of my knowledge and belief.
		M &	W Heckbel Bros 70 0327
·		Address	13916 96th Ave Cosecrasile Mi.
		·	18416 96th AUR CORRESULTE MI.
D67d 100M (Rev. 12-68)		Signed _	AUTHORIZED REPRESENTATIVE Date 5 09 80

OLOLOGICAL SURVEY SAMPLE No.		1 1						
May	WATER WE	_	RD	) No South Contraction	MICH	IIGAN DEPA	RTMENT	1
1 LOCATION OF WELL 5 1967	ACT 294	PA 1965	(	Mosan Contraction		OF PUBLIC HEA	ALTH	•
County Twp./		Fraction		Section No.	Town	·	ange	
I Citaval Polition	U	N.W. N.	to land	4 34	1	N/S.		E/W.
tance And Direction from Road Intersections	OWNER No			NER OF WELL:	-1."	1		
Theory 12 mile west of 68th	, A			jatini.	Merce	sign !		1
250-27514 Just & Tul	reld		Add	ross 7/20	J.42	field	1, T GA	•
Street address & City of Wall Location		Υ	البر)	v perce	TELE	, mu	مريك	•
2 FORMATION	THICKNESS OF STRATUM	BOTTOM OF	4 WEL	L DEPTH: (comp		ate of Comple	etion	
11676	SIRATUM	STRATUM	5 🗖		Rotary	March	4/	
LIX It. Clay	188	188		<u> </u>	Jetted	☐ Driver☐ Bored	_	Dug
1101 111111	1.	4 4 -		: Domestic			Industry	,—
7 ht. all. Card	4	198		Irrigation [	Air Cond	ditioning [	Commer	
111 Ft 11.	11/2	200	7 (15	Test Well		- 7/	\$ F	
The state of the s	1/0	202		ING: Threaded				
23 Tet, agree more	153	225	1 200	in. to 2011	. Depth	surface Weight		
The state of the s			l	in, tof	t. Depth	1 -		
Mark			8 scr	EEN: "	.2 0			
			Тур	Rock	well	Día.:		
			Slot,	/Gauze		Length		
			Set	petweenff	r. and	ft.		
			F: ***	ngs:				
			9 STA	TIC WATER LEVE	EL , ,			
\$ 16 L 1 L 2 - 2 MARINE A MARI	<del> </del>		10 PUM	5'4 ft. below I	and surface	face		
				ft. after				.m.
				ft. after				
			11 WAT	ER QUALITY in F				
				(Fe)				
						- (01/		
				ness				
			12 WEL	L HEAD COMPLE				
			13 GRO	Pitless Ada	pter 📋	12" Above G	rade	
			Well	Grouted?  Yes	□ No			
				rial: Neat Cen				
				n: Fromft.	toft.			
			14 SANI	TARY: est Source of possi	:61	:*:		
				·	Direction		_Туре	
			Well	disinfected upon c				
			15 римі	P:	1 /	9		
				facturer's Name/	TAIL	111		
		j		l Number th of Drop Pipe		HP( pacity(	2011	-
				: Submersible		iderry	7. F .M.	
10	1			D Jet		eciprocating		
16 Remarks, elevation, source of data, etc.				NTRACTOR'S CE				
				led under my juris nowledge and beli		tnis report is	True	
		Rain	11/11	704/18	Miller	d 16	126	
		' K RE	GISTERED	BUSINESS NAME	~ /s	T REGIST	AATION NO.	٠   ,
		Address	1+ 1)	80th and	6	Denvil	<del>(6. )</del>	10/2
The state of the s				LREPARGENTATIVE		ate	, /,	-
D67D 1001 2 22	~~	سنر ا۔	až indktio	CREPRESENTATIVES.	LUUS	ゲーク	-61	<i>'</i>

GEOLOGICAL SURVEY SAMPLE No.		37	1-2	
ţ	A Part of the State of the Stat	WATED 1	WELL REG	copp beces
1 LOCATION OF WELL		ACT 29	94 PA 196	OF OF
	Township Name		Fraction	PUBLIC HEALTH    Section Number   Town Number   Range Number
OTTHWA	POLKTO	N	1/4	4 4 34 17 NNS. R14 LUN
Distance And Direction from Boad II	itersections 76	eva,	20	3 OWNER OF WELL D G VEENL MINN
on south six	de of Te	ufiel	d	Apology 5-3 MU KEE S.W.
Street address & City of Well Locate	ion INKNA LI	181		GRAND KATIUS, MICH
Locate with "X" A section before	well Sketch	п Мар:		4 WELL DEPTH: (completed) Date of Completion
				247 n. 5 Oct 70
\(\frac{1}{2} - \frac{1}{2} -				5 Cable tool Rotary Driven Dug
3				Hollow rod Jetted Bored  6 USE: Domestic Public Supply Industry
				☐ Irrigation ☐ Air Conditioning ☐ Commercial
		•		Test Well
1 MILE				7 CASING: Threaded Welded Height: Height: Below Burface ft.
2 FORMATION		THICKNESS OF	DEPTH TO BOTTOM OF	3 in. to 22 ft. Depth Weight 2/40s/ft.
2) //		STRATUM	STRATUM	8 SCREEN:
Blue all	24			n + 1/- 1
+ + 1	1	244	122	Type: // O C K W Ofa.:
Cop 60 000	lone	222	200	Set betweenft. andft.
1 2h an kal	sandrak	251	247	Fittings:
7,7,000,000,000,000,000	327-237-0-76	<u> </u>		9 STATIC WATER LEVEL
				ft. below land surface
				10 PUMPING LEVEL below land surface
1 8				
6 7 0	· ·			ft. after hrs. pumping g.p.m.  11 WATER QUALITY in Parts Per Million: /
3	×			Iron (Fe) / Million;
6 3	8			omorios (CI)
	- 3			HardnessOther
4.	غ <sup>ر</sup> و		İ	12 WELL HEAD COMPLETION: In Approved Pit
3	6. 6			Pitless Adapter 12" Above Grade  13 Well Grouted? Yes No
		-		Neat Cement Bentonite
	5 6 J	4	-	Depth: Fromft. toft.  14 Nearest Source of possible contamination
	2	1		50 feet S Moirection SF PT/C Type
		9		Well disinfected upon completion Yes No
		375	[	Not installed
		3	5	
			<u> </u>	Model Number MAY-12 HP Volts 220 Length of Drop Pipe 24ft. capacity G.P.M.
			-	Type: Submersible
				Jet Reciprocating
USE A 2ND SHEET IF NEI 16 Remarks, elevation, source of o			7.00	
		i	Th. !	ELL CONTRACTOR'S CERTIFICATION: was drilled under my jurisdiction and this report is true
Typus Vacant 2-4-			Valley best	t of my knowledge and belief. 6 0395
in host en our en ou	to Atababa ?	124 DX	REGIST 4449	ered Business name  Registration No. Proceedings of the desired with the d
			Audress	11 MALAA DA.
D67d 100M (Rev. 12-68)			Signed	Joy Walfield Date 15 Chil 70 UTHORIZED REPRESENTATIVE

		WATER V		.OKD 5 N	ot ecoed 1	MICHIGAN DEPA OF		(
1 LOCATION OF WELL			15-0-1		~	PUBLIC HEA	و و و و و و و و و و و و و و و و و و و	
ounty	Township Name		Fraction		Section Number		Range N	
Distance And Direction from Ro	HOIK to in		1/4	3 OWNER OF		- N/s.	14	₽⁄W.
About too ft. eas-					#666. '``````````````````````````````````	< 100 to 000	120	
The second second	of both the	1501 406	1	Address	15770		1 -3 (_	
Then angust 120 ft	ocation of Ear	Field	/•					
Street address & City of Well L Locate with "X" in section	below Sketch	Map:	711.0 C	4 WELL DEPTH	d: (completed)	Date of Completion	<u>ነ ር ነ</u> ነ. ገ	
×	GOF II				256 ft.			
	Gurfiell			5 Cable to		ry Drive	n [	Dug
	657		<del>-</del> <del>-</del> <del>-</del> <del>-</del> <del>-</del> <del>-</del> <del>-</del> <del>-</del> <del>-</del> <del>-</del>	Hollow			. [	<u> </u>
w	+			6 USE: 🔀 Dor	mestic Publ	ic Supply	Industr	у
			.T	trri-		Conditioning [	Commer	rcial
	20	200 Ft. 4	*	Tes				
5				/ CASING: Th Diam.	readed X Welded			
1 MILE		THICKNESS	DEPTH TO	4	9.5.1	Surface		
2 FORMA1	TION	OF STRATUM	BOTTOM OF	7 10. to	<u>ට්ට්</u> ft. Depti	h   Weight <u>10.</u>	<u>∕</u> lbs./f	i.
		311111111	311111111	18 SCREEN:			-	10
Flack dirt		,	1	Type	None	D:-		
		<b></b>	,					
clay yellow		16	17	l	ft. and			
1		_		Fittings:				
clay blue		131	143			***		,
	,	,,,,,		9 STATIC WAT				•
Gravel a clay	Mixed	49	147		ft. below land sur			
lime cock		25	44.2		ft. after hrs. p		n	m
1			3,3,0,0				9.01.	
marshall rock		34	236	-	ft. after hrs. p	oumping	g.p.r	n.
				11 WATER QUA	ALITY in Parts Per	Million:		
				Iron (Fe)	Chlor	ides (CI)		
				Hardnace	Othor			
				12 WELL HEAD	Other  COMPLETION: [	In Approved Pi	•	
					tless Adapter [			
					ed? Yes No			
					ement Bentoni	ite 🗌		
			ļ	Depth: Fro	omft. t	oft.	<del></del>	
					SU) Direction		<del>-</del> . /.	-
j.					octed upon complet			Type
				15 PUMP:		ot installed		
27	3			Manufacture	ər's Name <u>— Ou</u>			
5					per <u>135M - 104</u>		231	<u>s</u>
				Length of D	rop Pipe <u>105</u> ft.	capacity 15 G.	Р.М.	
			1	Type: 🔀 S	Submersible			
<u> </u>	-				Jet	Reciprocating		
USE A 2ND SHEET	IF NEEDED		ĺ	Paris	Ser. 1 #1	F091096		
16 Remarks, elevation, sourc		1	7 WATER W	ELL CONTRA	CTOR'S CERTIFIC	CATION:		
					der my jurisdiction dge and belief.	and this report i	s true	
		1		1 Heck TERED BUSINESS		70 - () REGISTRA	237	
<b>1</b>						REGISTRA	TION NO.	
			Address _	12976 3	ibria Ave	Contacol	116	
			4	Dillit	4 0 0		4.00	,
D67d 100M (Rev. 12-68)		34-	Signed 1	AUTHORIZED REP	RESENTATIVE	Date [2 S	7.20	

GEOLOGICAL SURVEY SAMPLE No.

MAY 5	WATERWE		RD	MICHIGAN DEPARTMENT
1 LOCATION OF WELL 5 1967	ACT 294	PA 1965	Notheredeco	OF PUBLIC HEALTH
County Twp. Pulp	tow	Fraction	Section No 14/14 34	Town Range N/S. 14 E/W
tance And Direction from Road Intersections		1 1V = 1 1 C	3 OWNER OF WELL	,
South of Harfeiled 1000	T WHIER NO.		Oreiven A	Costerhouse
Street address & City of Well Location 180+	CT		Cooperaville	68th Cive.
2 FORMATION	THICKNESS	DEPTH TO	4 WELL DEPTH: (complete	
	STRATUM	BOTTOM OF STRATUM	220 11.	March 67
188 F.t. Clay			Hollow rod 1	Rotary Driven Dug
16 ht sand			6 USE: Domestic	Public Supply   Industry  Air Conditioning   Commercial
16 Fit Rock			7 CASING:	
			Diam. Threaded W	Velded Height: Above/Below epth surfaceft.
			30 in. to 24 ft. D	Weightbs/ft.
			in. toft. D	epth Drive Shoe? Yes No
			8 SCREEN:	Ole Dio.:
-			Slot/Gouze	Length
. *			Set betweenft. ar	ndft.
			Fittings:	
			9 STATIC WATER LEVEL	
			45 ft. below land 10 PUMPING LEVEL below	surface
				rs. pumpingg.p.m.
				rs. pumpingg.p.m.
			11 WATER QUALITY in Part	
			Iron (Fe)C	
			Hardness	
			12 WELL HEAD COMPLETIC	N: In Approved Pit
			Pitless Adapter	☐ 12'' Abave Grade
•			13 GROUTING: Well Grouted? Yes	No
			Material: Neat Cement	
			Depth: Fromft. to	ft.
			14 SANITARY: Nearest Source of possible	
			·	ectionType
			Well disinfected upon comp	
		1	15 PUMP:  Manufacturer's Name	o das
			Model Number	HP_1/2
			Length of Drop Pipe	_ft. capacityG.P.M.
		İ	Type: X Submersible	Reciprocating
6 Remarks, elevation, source of data, etc.			ELL CONTRACTOR'S CERT	IFICATION:
			was drilled under my jurisdict t of my knowledge and belief.	ion and this report is true
		Rasm	was Trell Fin	Muna 1421
		1 Sales	GISTERED BUSINESS NAME	REGISTRATION NO.
		Address	II I SO GUH	· Coperatile,
		Signed	tack Rusma	W/00104-5-67
D67D 100M 6-66		34 <i>-4</i> ′^	MEDRESSH TRITVE	

MICHIGA	AN DEPART	MENT OF	PUBLIC HEALTH ~ (	
GEOLOGICAL SURVEY NO. WATE	R WELL	AND PL	JMP RECORD	PERMIT NUMBER
1 LOCATION OF WELL		Fraction	Section Number	Town Number Range Number
County Township Name  Ottawa Polkton		1/4	1/4 1/4 34	8 N/8 14 P/W
Distance And Direction From Road Intersection		/4	3 OWNER OF WELL	
60' East of 68th Avenue - South	of Garfi	eld	Address 15550 68th	w Waste Systems Ave.,Coopersville
15550 6021	. Assa Class			
Street Address & City of Well Location 15550 68th	Sketch Map:	rite	Address Same As Well Location 4 WELL DEPTH: 1 Date Completed	YEAR NO WEIL
			280 FT. 6 6	90   X Replacement Well
			5 Cable tool Rotary	Driven Dug
w			Hollow rod Auger	Jetted
		-	6 USE: Domestic Type I F	_
	FIELD	57.	Test Well Type IIb	
00 -0-			7 CASING: Steel  Threade	
1 MILE	THICKNESS	рертн то	Plastic Welded    Welded	Surface II.
2 FORMATION DESCRIPTION	OF STRATUM	BOTTOM OF	in. to ft. depth	Weight 2.8 lbs./ft.
			Grouted Drill Hole Diameter in. to ft. depth	Drive Shoe Yes
Sand	5	5	in. to ft. depth	No X No
<b>a</b> 1			8 SCREEN:	Not installed
Clay	134	139	Type D	
Clay & Gravel	47	186	Set betweenft.	*
		- -	FITTINGS: K-Packer L	_ead Packer 🔲 Bremer Check
Gypsum	15	201	Blank above screen ft 9 STATIC WATER LEVEL:	. Other
Shale	5	206	83ft. below land s	surface Flow
011020			10 PUMPING LEVEL: below land sur	
Limestone & Shale	6	212	ft. after <b>4</b> _ hrs. p	
Limestone	5	217	ft. after hrs. p	umping at G.P.M.
Limescone			11 WELL HEAD COMPLETION: Pitless ada	pter 12" above grade
Shale	3	220	Basement	
Warehall Candatana	60	280	12 WELL GROUTED? No	Yes From 222 to surface
Marshall Sandstone	00	200	Neat cement X Benton	ite Other
			No. of bags of cement A	
			13 Nearest source of possible contain	nination  e 50 ft. Direction East
			Well disinfected upon completion?	X Yes No
			Was old well plugged?	Yes No
			14 PUMP: Not Installed	Pump Installation Only
			Manufacturer's name <b>Aermo</b> Model number <b>Al2-100</b>	
			Length of Drop Pipe 120	ft. capacity fs. G.P.M.
			TYPE: XX Submersible	Jet
			PRESSURE TANK:  Manufacturer's nameUse	d their tank
USE A 2ND SHEET IF NEEDED			Model number	Capacity Gallons
15. Remarks, elevation, source of data, etc.	ņ	This wel	WELL CONTRACTOR'S CERTIFIC I was drilled under my jurisdiction and est of my knowledge and belief.	
V = 5.7 V	'\		Raymer Company, In	c. 0384
17. Ris Operator's Name:				REGISTRATION NO.  N.W., Grand Rapids,
17. Rig Operator's Name:	111 A		and the second s	
GITEPA (C)		Signed _		Date
067d 2/89	34.	-5	Auth	pletion: Act 368 PA 1978 pletion: Required Conviction of a violation

Distance and Directing from 1900 injunctions five r 501 field  Distance and Directing from 1900 injunctions five r 501 field  Distance and Directing from 1900 injunctions five r 501 field  Street Address a City of well ceased in the control of th	Township Name		34-0	N.		GEOLOGICAL SURVEY SAMPLE No.				
County   C	Township Name   Township Nam	MICHIGAN DEPARTMENT	WELL RE	WATER ACT 2						
Disappee And Direction from Assaul Interactions flats - Control   Section Number   Sectio	Distance and Directings from Road injusticity from Road Road Road Injusticity from Road Road Road Road Road Road Road Road	PUBLIC HEALTH				County				
Street Sabula of Children   South	Street Water Could find gest actions for the South Mac.    Constant   Constan	Section Number Town Number Range Number  N. S. / Y. E/W.	NF12		Milkton	DHarry				
Street Names & City's Well (coalist)   Coalist with (coalist with (coalist)   Coalist with (coalist	Street Notes a crit of wait todation   10 P P	ER OF WELL:	reld	-Goif	ntersections.	Distance And Direction from Road   O. 3				
Section below   Sketch Mab:   A WELL DEPTH   Completed   One of Comp	Seetch Mapp:   A WELL DETTY: (Completed) Date of Completing   Seetch Mapp:   Caption   Seetch Mapp:   Caption   Seetch Mapp:   Caption   Seetch Wall   See	ss / or / oppord st			163 HIG	Then 40TT tast of				
Soffeet   Soff	Soffee   S	Coopersuille Wich				Street address & City of Well Locat				
Hollow roll   Jotted   Bored   Bored   Guste   Domestic   Domest	Hollow of Jetter   Public Supply   Hollow of Jetter   Public Supply   Hollow of Jetter   Public Supply   Hollow of Jetter   Public Supply   Hollow of Jetter   Public Supply   Hollow of Jetter   Public Supply   Hollow of Jetter   Public Supply   Hollow of Jetter   Public Supply   Hollow of Jetter   Public Supply   Hollow of Jetter   Public Supply   Hollow of Jetter   Public Supply   Hollow of Jetter   Public Supply   Hollow of Jetter   Public Supply   Hollow of Jetter   Public Supply   Hollow of Jetter   Hollow of Jette		<i>i</i> 1	n Map:		256dte Will X III Section Belo				
Hollow roll   Jotted   Bored   Bored   Guste   Domestic   Domest	Hollow of Jetter   Public Supply   Hollow of Jetter   Public Supply   Hollow of Jetter   Public Supply   Hollow of Jetter   Public Supply   Hollow of Jetter   Public Supply   Hollow of Jetter   Public Supply   Hollow of Jetter   Public Supply   Hollow of Jetter   Public Supply   Hollow of Jetter   Public Supply   Hollow of Jetter   Public Supply   Hollow of Jetter   Public Supply   Hollow of Jetter   Public Supply   Hollow of Jetter   Public Supply   Hollow of Jetter   Public Supply   Hollow of Jetter   Hollow of Jette		<u>[d</u>	outie!						
		ollow rod Jetted Bored			2 6					
Trast Well  Test Well  Total Note Threader   Welded   Height: Above/Balaw Surface   ft.  Total Note Threader   Welded   Height: Above/Balaw Surface   ft.  Total Note Threader   Welded   Height: Above/Balaw Surface   ft.  Surface   ft.  Surface   ft.  Surface   ft.  Surface   ft.  Surface   ft.  Surface   ft.  Surface   ft.  Welght   ft. Depth   Drive Shoe? Yes   No    Clay   Blue   ft.   ft. Depth   Drive Shoe? Yes   No    Clay   Blue   ft.   ft.   ft.  Clay   Blue   ft.   ft.   ft.  Clay   Blue   ft.   ft.   ft.  Clay   Blue   ft.   ft.   ft.  Clay   Blue   ft.   ft.  Surface   ft.   ft.  S	THICKNESS   SEPTITO   Surface   Su									
FORMATION  THICKNESS DEPTH TO SOTTOW OF STATUM  TO STATUM  TO STATUM  SEREN:  Clay - Yellow  Clay - Blue - Very 50ft  Clay - Blue - Very 50ft  Clay - Blue - Some grave 59  Statuel - Fine - Some clay 47  Sing Gause  State Length  Set between ft. and ft.  Fittings:  Clay - Blue - Some grave 59  State - Fittings:  State - Fittings:  State - Gray - Sing Clay - Fit below land surface  10 PUMPING Level below land surface  10 PUMPING Level below land surface  10 PUMPING Level below land surface  11 WATER QUALITY in Parts Per Million:  Iron (Fe) Chlorides (CI)  Luxter beat ring 13 Well Grouted? Yes No    Not installed   Not installed	THICKNESS DEPTH TO ON BOTTOM OF IN. 10 IN. Depth Weight Weight Clay France In. 10 In. Depth Weight Clay Stratum In. 10 In. Depth Weight Clay Blue Type: Storage In. 10 In. Depth In. 10 In. Depth In. 10 In. Depth In. 10 In. Depth In. 10 In. Depth In. 10 In. Depth In. 10 In. Depth In. 10 In. Depth In. 10 In. Depth In. In. 10 In. Depth In. 10 In. Depth In. 10 In. Depth In. In. 10 In. Depth In. 10 In. Depth In. 10 In. Depth In. 10 In. Depth In. 10 In. Depth In. 10 In. Depth In. In. 10 In. Depth In. 10 In. Depth In. In. 10 In. In. In. In. In. In. In. In. In. In.	Test Well		90-1t	- 1					
THICKNESS BETTON TO STRATUM  S	THICKNESS DEPTH OF IN. TO IT. Depth   Surface   Surface	IG: Threaded Welded Height: Above/Below				1 MILE				
STRATUM  SALTATION  SALTATION  SALTATION  SALTATION  SALTATION  SALTATION  SALTATION  SALTATION  SALTATION  SALTATION  SALTATION  SALTATION  SALTATION  SALTATION  SALTATION	STRATUM STRATUM   _in, to _ ft, Depth   Drive Shi   Clay					2 FORMATION	Ī			
Clay - Yellow  Clay - Blue	Clay Blue 74 87  Slot/Gauze Length Slot/Gauze Length Stor/Gauze Stor/Gauze Length Stor/Gauze Stor/Gauze Length Stor/Gauze Stor/Gauze Stor/Gauze Stor/Gauze Stor/Gauze Stor/Gauze Stor/Gauze Length Stor/Gauze Length Stor/Gauze Length Stor/Gauze Stor/Gauze Stor/Gauze Stor/Gauze Stor/Gauze Stor/Gauze Length Stor/Gauze Stor/Gauze Stor/Gauze Stor/Gauze Stor/Gauze Stor/Gauze Stor/Gauze Stor/Gauze Stor/Gauze Stor/Gauze Stor/Gauze Length Stor/Gauze Stor/Gauze Stor/Gauze Stor/Gauze Stor/Gauze Stor/Gauze Stor/Gauze Stor/Gauze Stor/Gauze Stor/Gauze Stor/Gauze Length Stor/Gauze Stor/	in. toft. Depth   Drive Shoe? Yes X No			· ·	- TOMMATTON	-			
Clay Blue 74 87  Stot/Gauze Length Set between ft. and ft.  Fittings:  Clay Blue Very 5577  35  Fittings:  95  Fittings:  10 PUMPING LEVEL below land surface  34 ft. after Ars. pumping 41 g.o.m.  Sizil - Gray  Si	Clay Blue  74 8-7 Set between  ft. and  ft.  Clay Blue	÷ 🐧	13	13	,	Clau - Yellow				
Clay Blue - Very 5077 \$ 95  Clay Blue - Some gravel 59   154   Static water level   Stavel - Fine - Some ckic 47 301   10 PUMPING Level below land surface   34 ft. after Lehrs, pumping 41 g.p.m.  Sixic - gray   35 33(a   ft. after hrs. pumping   g.p.m.  Sixic - gray   35 348   If water Quality in Parts Per Million:   Iron (Fe)   Chlorides (CI)    Lister bearing   12 Well Head completion:   In Approved Pit   Pitless Adapter   12" Above Grade   13 Well Grouted?   Yes   No   Neat Cement   Bentonite   Depth: From ft. to   ft.    14 Nairest Source of possible contamination   Manuacturer's Name   20 Uld S   Model Number (EFT)   Depth: From   St. to   Top Model Number (EFT)   Depth: From   Top Model Number (EFT)   Dep	Clay - Blue - Very 50FT   3   95   Fittings:			-7/		$\sim 1$ $\sim 1$				
Stave - Ory 507   Stave - Ory 507   Stave - Some cky 47   Stave - Fine - Some cky 47   Stave - Fine - Some cky 47   Stave - Fine - Some cky 47   Stave - Gray   Gray -	State   Clay   Sold   State   Clay   Sold   State   Clay   Sold   State   Clay   Sold   State   Clay   Sold   State   Clay   Sold   State   Clay   Sold   State   Clay   Sold   State   Clay   Sold   State   Clay   Sold   State   Clay   Sold   State   Clay   Sold   State   Clay   Sold   State   Clay   Sold   State   State   Clay   Sold   State   Clay   Sold   State   Clay   Sold   State   Clay   Sold   State   State   Clay   Sold   State   St		5/	19	***	Clay. Blue	ŀ			
State   Stat	STATILE LEVEL   STATILE	ıs:	95	- 5	Clay-Blue-very 5057					
Staile	Stave   - fine - Some cka 47 30   10 PUMPING LEVEL below land surface   34   ft. after   hrs. pumping 4/2		1521	Z9						
SINIC-GTGY  STONE-GTGY  11 WATER QUALITY in Parts Per Million:    Iron (Fe)	Sinc-gray    State   S	PING LEVEL below land surface		l						
WATER QUALITY in Parts Per Million:   Iron (Fe)	WATER QUALITY in Parts Per Million:   Iron (Fe)	$\frac{4}{2}$ ft. after (A hrs. pumping $\frac{4}{2}$ ) g.p.m.	301	47	Smuel-tine-Somecky					
WATER QUALITY in Parts Per Million:   Iron (Fe)	WATER QUALITY in Parts Per Million:   Iron (Fe)	ft. after hrs. pumping g.p.m.	336	35	1					
Hardness Other    12 WELL HEAD COMPLETION:	Hardness Other   12 WELL HEAD COMPLETION:   In Approved   Pitless Adapter   12" Above (13 Welf Grouted?   Yes   No   Neat Cement   Bentonite   Depth: From   ft. to   ft.	ER QUALITY in Parts Per Million:			ir.	$\sim$ 1 $\forall$ 1				
Pitless Adapter   12" Above Grade   13   Well Grouted?   Yes   No   Neat Cement   Bentonite   Depth: From   ft. to   ft.   14   Nearest Source of possible contamination   Mell disinfected upon completion   Yes   No   Not installed   Not installed   Manufacturer's Name   Oulds   Model Number   Fill   10   HP   Volts   30   Length of Drop Pipe   Submersible   G.P.M.   Type:   Submersible   G.P.M.   Reciprocating   Submersible   G.P.M.   Reciprocating   Not installed   Reciprocating   Reciprocating   Reciprocating   Not installed   Reciprocating   Not installed   Reciprocating   Reciprocating   Not installed   Reciprocating   Not installed   Reciprocating   Not installed   Reciprocating   Not installed   Not i	13 Well Grouted?   Yes   No	(Fe) Chlorides (CI)	373	シージ	,	ZUIXIJIONE -	r			
Pitless Adapter   12" Above Grade   13   Well Grouted?   Yes   No   Neat Cement   Bentonite   Depth: From   ft. to   ft.   14   Nearest Source of possible contamination   Mell disinfected upon completion   Yes   No   Not installed   Not installed   Manufacturer's Name   Oulds   Model Number   Fill   10   HP   Volts   30   Length of Drop Pipe   Submersible   G.P.M.   Type:   Submersible   G.P.M.   Reciprocating   Submersible   G.P.M.   Reciprocating   Not installed   Reciprocating   Reciprocating   Reciprocating   Not installed   Reciprocating   Not installed   Reciprocating   Reciprocating   Not installed   Reciprocating   Not installed   Reciprocating   Not installed   Reciprocating   Not installed   Not i	13 Well Grouted?   Yes   No				arma	Lugterbe	-			
Neat Cement   Bentonite	Neat Cement   Bentonite   Depth: From									
Depth: Fromft. toft.  14 Nearest Source of possible contamination  // feetDirection	Depth: From	Grouted? Yes No			-	* 10 februarie - 10 f	ľ			
14 Nearest Source of possible contamination  // feet	14 Nearest Source of possible contamination						ŀ			
Well disinfected upon completion Yes No  15 PUMP: Not installed  Manufacturer's Name (7000) HP / Volts 33()  Length of Drop Pipe / (500) HP / G.P.M.  Type: Submersible Reciprocating	Well disinfected upon completion Yes   15 PUMP: Not installed  Manufacturer's Name (7000) Model Number (F11) 1/1) HP / Vol Length of Drop Pipe / Offt. capacity / Type: Submersible  USE A 2ND SHEET IF NEEDED  16 Remarks, elevation, source of data, etc.  17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report to the best of my knowledge and/belief.  REGISTERED BUSINESS NAME (1500)	est Source of possible contamination					L			
15 PUMP:	15 PUMP: Not installed  Manufacturer's Name (700) 5  Model Number (17) 10 HP / Vol  Length of Drop Pipe / Inft. capacity 10  Type: Submersible									
Manufacturer's Name (7000)  Model Number (15) 10 HP / Volts 330  Length of Drop Pipe / Coft. capacity & G.P.M.  Type: Submersible Reciprocating	Manufacturer's Name (7000)  Model Number (F1) 10 HP Volength of Drop Pipe (20ft. capacity (20ft))  Type: Submersible   Jet   Reciprocating    16 Remarks, elevation, source of data, etc.  17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report to the best of my knowledge and/belief.						.			
Model Number (LFT) 1/1) HP Volts 33()  Length of Drop Pipe 1 Cft. capacity Ling G.P.M.  Type: Submersible    Jet   Reciprocating	Model Number (1) 1/ HP Vol Length of Drop Pipe (1) (ft. capacity (1) Type: Submersible  USE A 2ND SHEET IF NEEDED  16 Remarks, elevation, source of data, etc.  17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report to the best of my knowledge and/belief.  REGISTERED BUSINESS NAME  15 OF THE PROPERTY OF	facturer's Name OULS					L			
Type: Submersible    Jet   Reciprocating	Type: Submersible    Jet   Reciprocating    Submersible   Jet   Reciprocating    Submersible   Jet   Reciprocating    Submersible   Jet   Reciprocating    Submersible   Jet   Reciprocating    Submersible   Jet   Reciprocating    Submersible   Jet   Reciprocating    Submersible   Jet   Reciprocating    Submersible   Jet   J	Number (11) 1/) HP / Volts 3 3/)		1						
Jet Reciprocating	Jet Reciprocating  USE A 2ND SHEET IF NEEDED  16 Remarks, elevation, source of data, etc.  17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report to the best of my knowledge and/belief.	,								
USE A 2ND SHEET IF NEFDED	16 Remarks, elevation, source of data, etc.  17 WATER WELL CONTRACTOR'S CERTIFICATION:  This well was drilled under my jurisdiction and this report to the best of my knowledge and/belief.  REGISTERED BUSINESS NAME  REGISTERED BUSINESS NAME	<u> </u>					-			
	This well was drilled under my jurisdiction and this report to the best of my knowledge and/belief.									
The state of the s	to the best of my knowledge and/belief.				data, etc.	16 Remarks, elevation, source of	1			
to the best of my knowledge and/belief.	REGISTERED BUSINESS NAME REGISTI	nowledge and/belief.	to the bes				l			
REGISTERED BUSINESS NAME REGISTRATION NO.		SINESS NAME REGISTRATION NO.	REGIS				-			
Address 13976-96 Aug Cours ersuite  Signed 100M (Rev. 12-68)  AUTHORIZED REPRESENTATIVE	Address / The Hore Cours	76-46 Hue Coopersuille	Address _							
	Signed I ) leave of Hecked Date 3	De of Hecker Date 3-10 71	Signed $\vec{I}$				L			

SESECUTOR SOLVET SAINFLE NO.	35-1	
Vell No700212505	WATER WELL RE	COPD
1 LOCATION OF WELL LOCE 1,569,	700 Loc. N - S6	MICHIGAN DEPARTMENT OF PUBLIC HEALTH
County Township Name	Fraction	Section Number   Town Number   Range Number
Distance And Discourse to Day	NE 1/4	11. MANLIM 35 8 N/S. 141 JE/W.
Hisout D. 7 m. East of 65 7	lue + Gartield	3 OWNER OF WELL:
		Address 6364 Gartield
Street address & City of Well Location  Locate with "X" in section below	oille il ich	4 WELL DEPTH: (completed) Date of Completion
X T	Sketch Map:	1
	. eld	5 ☐ Cable tool ☐ Rotary ☐ Driven ☐ Dug
w	700.	Hollow rod Jetted Bored
	60'	6 USE: Domestic Public Supply Industry
	Ø	☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐
		7 CASING: Threaded Welded Height: Above/Below
1 MILE	THICKNESS   DEPTH TO	Surface 🤝 /- ft.
2 FORMATION	OF BOTTOM OF STRATUM	in. to /23 ft. Depth   Weight/ Flbs./ft.
1 131 1 5 1		8 SCREEN: )
Topsoil Black Dict		Type: None Dia.:
Clay. Yellow	30 31	Slot/Gauze Length ft.
Clay- Blue	107 148	Fittings:
		9 STATIC WATER LEVEL
Gravel some clay Dirty	, 35 183	55 ft. below land surface
Summerock Shide	15 198	10 PUMPING LEVEL below land surface  59 ft. after hrs. pumping 50 g.p.m.
/	75 75	it. artersy hrs. pumping (); ) g.p.m.
Sandetone Light Gray		ft. after hrs. pumping g.p.m.
and waterberring	40 238	11 WATER QUALITY in Parts Per Million:    Iron (Fe) Chlorides (CI)
7		omorides (c)/
		HardnessOther
		12 WELL HEAD COMPLETION: In Approved Pit    Pitless Adapter   12" Above Grade
		13 Well Grouted? Yes No
		☐ Neat Cement ☐ Bentonite ☐
		14 Nearest Source of possible contamination
		50 feet SW Direction Sector Tank Type
		Well disinfected upon completion ∑ Yes No  15 PUMP: Not installed
		Manufacturer's Name TOUK!
		Model Number 5 EL-10410 HP Volts 221)
		Length of Drop Pipe 77 ft. capacit 5 G.P.M.  Type: 7 Submersible
MEDEW .		
USE A 2ND SHEET IF NEEDED		2 Car 1 (07010)
16 Remarks, elevation, source of data, etc.		VELL CONTRACTOR'S CERTIFICATION:
THUSD AWATTO	to the bes	was drilled under my jurisdiction and this report is true st of my knowledge and belief.
EIIV. HEALTH	REGIS	THE BUSINESS NAME REGISTRATION NO.
·		18976 96" Aue Coopersuille
	l l	AUTHORIZED REPRESENTATIVE Date 9-2/77
D67d 100M (Rev. 12-68)	Signed	AUTHORIZED REPRESENTATIVE Date 7 3/ 17
	35-1	

	GEOLOGICAL SURVEY SAMPLE No.			35-2				
								$\perp \perp \perp$
	Well No 7002139	८०४	WATER	WELL RE	CORD	MICHIGA	N_DEPARTMENT	τ
		Loc. E-1,571	,600 ACT	140c. W	<u>, 2007, 368 = 200</u>	ELE-647 PUBLI	OF C HEALTH	
ť	County	Township Name		Fraction	Sh nm need	ion Number   Town Num	nber Range N	Number
7	Distance And Direction from Road	Intersections -		1/1/2/2	iVicoli i cost	35 (	N/5. 14	ĕ∕w.
	Distance And Pirection from Road  O. History  The South Control  The S	at buffiel	1-21-6	·017/40	OWNER OF WELL:	,		
	1 12136 60 7	luc ( )	25 . E. L.		Address 5/3	6017		
	Street address & City of Well Local	tion	50.11c	Buck		ersuille 1		
	Locate with X in section belo	Ske	tch Map:		4 WELL DEPTH: (co	ompleted) Date of Cor	npletion	
			burt.	11.51	5 Cable tool	ft. //- 💥	7/	
		5/2		14 June	Cable tool Hollow rod			Dug
		€0.1×300			6 USE: Domestic	Jetted Public Supply	Bored	<u> </u>
		-14 300	, 20		☐ Irrigation			
					Test Well			
	1 MILE	1			Diam.	d∭ Welded  Heig	ht: Ab <del>ove/</del> Below ice <u>35</u> ft.	•
	2 FORMATION	J	THICKNES:	DEPTH TO	1 4 in. to /	74ft. Depth Weig	ht/ $\Omega$   lbs./f	ft.
			STRATUM	STRATUM	in. to /	ft. Depth Drive	Shoe? Yes 🔀 N	No 🗌
	Sand Yellows	some Clau	3	3	8 SCREEN:	_		
	01 (11)		1	<del>                                     </del>		Dia.: Length		
	Clay Yellow		18	3/	i	ft. andft.		
	Clay- Blue		77	98	Fittings:			
	Clay Blue so	me Grane	138	136	9 STATIC WATER LEV	/EL low land surface		
1			1		10 PUMPING LEVEL !	below land surface		
• !	Sand, gravel	, ,	38	174	ft. afti	er 💆 hrs. pumping	95 g.p.n	n.
	Line Kock S	ligic	15	159	ft. afte	erhrs. pumping	g.p.n	n.
	Sandstone M	celium	4//	330		Chlorides (CI)		
	(Water bear,	()-1)						
					Hardness	Other		
			1.			PLETION:   In Appro		
			<del> </del>		13 Well Grouted?	Adapter 12" Abo	ve Grade	
					Neat Cement			
					Depth: From	ft. to	ft.	
					14 Nearest Source of	possible contamination $S$ Direction $S$ . $I$	7 1	_
						on completion X Yes		- Type
					10		<u> </u>	
					Manufacturer's Nar	Not installed	·	
						11113 HP /		
					Type: Submers	e <u>//) O</u> ft, capacity <u>S</u>	<u>O</u> G.P.M.	
ŀ					Jet	Reciprocat	ing:	1
	USE A 2ND SHEET IF NE	EDED.						- 1
Ī	16 Remarks, elevation, source of			17 WATER W	ELL CONTRACTOR'S	CERTIFICATION:	***************************************	
	-			This well	was drilled under my j	jurisdiction and this re		
7(	•		-	/ i ) +	-CUHECKSE	REG	0337	
ン			ļ	REGIST	COC -/	REG	ISTRATION NO.	$_{i}$
				Address <u>/</u>	<u>~776 7</u>	hacl Date S	greens	<u>'</u>
L				Signed	Timble 1/	Le Kar Praiso	-54-7	ა
	767d 100M (Rev. 12-68)			<del>-</del> A	UTHORIZED REPRESENTA	ATIVE		

	GEOLOGICAL SURVEY SAMPLE NO.	30	· - 3		T
	1 1 1 - 7000/75/2/	MATER	WELL DE		
	Well No 700213504  1 LOCATION OF WELL LOC. E-1,573	WAIER ACT 2	WELL RE	MICHIGAN DEPARTMENT  65 67,050  ELE-629  PUBLIC HEALTH	
	County Township Name	. 300 F	Fraction	((,OSU ELE-629 PUBLIC HEALTH	
	Ottowa Polkton		MELA	NEWE Section Number Town Number Range Numb	
_	Distance And Direction from Road Intersections (Carfillou) Lout 125 F/ South o	0/1/3/+	100 th Flue	3 OWNER OF WELL:	٧٧.
	Then clout 125 Fl South o	f Gart	eld	Address 5708 Garfield	
	Street address & City of Well Location Coopers	wille 1	11.ch		
	Locate with "TV"	ch Map:		4 WELL DEPTH: (completed) Date of Completion	
	X	~ 11	<b>.</b> ,	_ Q/d	
		F. eld	31	5 🔀 Cable tool 📗 Rotary 📗 Driven 📗 D	ug
	~ .35;	135	•	Hollow rod Jetted Bored  6 USE: Domestic Public Supply Industry	
		*		b USE: Domestic Public Supply Industry  Irrigation Air Conditioning Commercial	1
		G		Test Well	
	1 MILE			7 CASING: Threaded Welded Height: Above/Below Diam.	
		THICKNESS		Surface $\frac{33}{4}$ ft. $\frac{163}{4}$ in. to $\frac{163}{4}$ ft. Weight $\frac{3}{10}$ lbs $\frac{3}{10}$ ft.	
	2 FORMATION	OF STRATUM	BOTTOM OF STRATUM	in. to /35ft. Depth   Drive Shoe? Yes   No	
	7		1	8 SCREEN:	
•	TANCAL	+ /	<del>                                     </del>	Type: /Yone Dia.:	
	Gravel - Course - Dirty	4	5	Slot/Gauzeft. andft.	
	Clay Yellow	7	12	Fittings:	
		05		9 STATIC WATER LEVEL	
	Clay - Blue	<u>  85                                   </u>	94	ft. below land surface	
(	Gravel - Clayey	14	108	ft. after hrs. pumping (1) g.p.m.	
1	Clay Blue	40	148		
	Gravel - Course - Dirty	6	154	11 WATER QUALITY in Parts Per Million:  tron (Fe) Chlorides (CI)	
	Clay Red	6	160	HardnessOther	
l				12 WELL HEAD COMPLETION: In Approved Pit	
-	Lime Mock + Shale	15	178	Pitless Adapter 12" Above Grade	
	Sandstone Liberry med (waterbearing)	1 24	2/2	13 Well Grouted? Yes No Neat Cement Bentonite	
Ī	(Waterbearing)	1 7	3/8	Depth: Fromft. toft.	
				14 Nearest Source of possible contamination	
				55 feet NE Direction Section Ty Well disinfected upon completion NYes No	pe
Ī				15 PUMP: Not installed	
-	**************************************	<u> </u>		Manufacturer's Name Gould's	
				Model Number 1E 17) -17412 HP 34 Volts 330	
r				Length of Drop Pipe $6.3$ ft. capacity $90$ G.P.M.  Type: $3$ Submersible	
-				Jet Reciprocating	
	USE A 2ND SHEET IF NEEDED			_	
ŀ	6 Remarks, elevation, source of data, etc.	1	17 WATER W	VELL CONTRACTOR'S CERTIFICATION:	$\dashv$
			This well to the bes	was drilled under my jurisdiction and this report is true st of my knowledge and belief:	
1			REGIS	st of my knowledge and belief.  - WHOCKSEL Brus 0337  TERED BUSINESS NAME REGISTRATION NO.	$\dashv$
4			Address	18971, 96 Hur Cousersulle	
		ĺ			$\exists$
L	67d 100M (Rev. 12-68)		Signed	AUTHORIZED REPRESENTATIVE	

GEOLOGICAL SURVEY SAMPLE No.		, ,	
	WATER	WELL RE	MICHIGAN DEPARTMENT
1 LOCATION OF WELL	ACT 2	34 FA 131	PUBLIC HEALTH
ounty Township Name		Fraction	The state of the s
Distance And Direction from Road Intersections	n.	SE 141	VEMNWM 25 PN/8. 14 E/W.
Hebrit 14 in south of Gart.			3 OWNER OF WELL:
Treser in the South of Gart.	eld a pott	mue.	Address Rulph School+
Street address & City of Well location 14.749	6011 1011		14767 GOTT, AUE.
Street address & City of Well Location 14.769 Locate with XXX in section below	Sketch Map:	236-633-6	4 WELL DEPTH: (completed) Date of Completion
	. 1		212 ft. 5-13-80
	!		
W	5		Hollow rod Jetted Bored
	14.c9		6 USE: Domestic Public Supply Industry
	P		☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
0 € 150	F+ 3 =		7 CASING: Threader Welded Height: Above/Below
1 MILE	1		Diam. Surface ft.
2 FORMATION	THICKNESS OF	DEPTH TO BOTTOM OF	4 in. to 168 ft. Depth Weight 108 lbs./ft.
2 TONWATION	STRATUM	STRATUM	in. toft. Depth Drive Shoe? Yes No
			8 SCREEN:
dirt klock		<del>                                     </del>	Type: Dia.:
i te de la constant	10	11	Slot/GauzeLength
alay, yellow			Set betweenft, andft,
21ay 11.8	95	106	Fittings.
,			9 STATIC WATER LEVEL
gravel a chy mount	58	164	ft. below land surface
		107	10 PUMPING LEVEL below land surface
ATTIME COOK	13-	127	ft. afterhrs. pumptng#?g.p.m.
muchall cock	35	212	ft. after hrs. pumping g.p.m.
			11 WATER QUALITY in Parts Per Million:
			Iron (Fe) Chlorides (CI)
			12 WELL HEAD COMPLETION: In Approved Pit
			Pitless Adapter 12" Above Grade
			13 Well Grouted? Yes No
			Neat Cement Bentonite
			Depth: Fromft. toft.
			14 Nearest Source of possible contamination
			50 feet N. Direction Septic Tork Type Well disinfected upon completion   Yes No
			15 PUMP: Not installed
No. of the second second			Manufacturer's Name
50.00			Model Number <u>  いとこつのはよる HP ジル</u> Volts <u>マニの</u>
			Length of Drop Pipe 1:3 ft. capacity 12G.P.M.
			Type: 🔀 Submersible
· · · · · · · · · · · · · · · · · · ·			Jet Reciprocating
USE A 2ND SHEET IF NEEDED			Puma Serial # E092226
16 Remarks, elevation, source of data, etc.		17 WATER W	VELL CONTRACTOR'S CERTIFICATION:
			was drilled under my jurisdiction and this report is true st of my knowledge and belief.
	İ		TERED BUSINESS NAME  REGISTRATION NO.
1			_
		Address	18976 Grath Aux Compensation.
		<b>\</b>	Musto I Hackard Date 5 29 PM
D67d 100M (Rev. 12-68)	25	Signed 1	AUTHORIZED REPRESENTATIVE Date 5



## Water Well And Pump Record



Completion is required under authority of Part 127 Act 368 PA 1978.

Failure to comply is a misdemeanor.

Import ID: Tax No: 70-05-35-300-002 &003 Permit No: 00-122 County: Ottawa Township: Polkton Town/Range: Section: Well Status: WSSN: Source ID/Well No: 08N 14W 35 Well ID: 70000002628 Distance and Direction from Road Intersection: well about .47 mile south of Garfield & 60th, then about 30' west of 60th Elevation: 650 ft. Latitude: 43.03932143 Well Owner: River Ridge Farms Well Address: Owner Address: Longitude: -85.93675234 14769 60th ave. 14769 60th ave. Method of Collection: Address Matching-House Number Coopersville, MI 49404 Coopersville, MI 49404 Drilling Method: Cable Tool Pump Installed: Pump Installation Only: No Yes Well Depth: 228.00 ft. Well Use: Other Pump Installation Date: 4/20/2000 HP: 1.50 Well Type: Replacement Date Completed: 4/20/2000 Manufacturer: Goulds Pump Type: Submersible Height: 1.00 ft. above grade Casing Type: Steel - galvanized Model Number: 18LS15422 Pump Capacity: 20 GPM Casing Joint: Threaded & coupled Drop Pipe Length: 105.00 ft. Pump Voltage: Casing Fitting: Drive shoe Drop Pipe Diameter: **Drilling Record ID:** Draw Down Seal Used: No Diameter: 4.00 in. to 162.00 ft. depth Pressure Tank Installed: 3.00 in. to 196.00 ft. depth Pressure Relief Valve Installed: Borehole: 8.00 in. to 25.00 ft. depth 4.00 in. to 196.00 ft. depth 3.00 in. to 228.00 ft. depth Static Water Level: 32.00 ft. Below Grade Depth to **Thickness Formation Description** Yield Test Method: Plunger Well Yield Test: Bottom Pumping level 38.00 ft. after 3.00 hrs. at 60 GPM Black Topsoil 1.00 1.00 Yellow Clay Brown 12.00 13.00 Brown Clav 13.00 26.00 Screen Installed: No Intake: Bedrock Well Gray Clay Blue 36.00 62.00 Gray Clay & Gravel 52.00 114.00 Dark Gray Boulders 1.00 115.00 Gray Clay & Gravel 16.00 131.00 Gray Boulders 1.00 132.00 Brown Clay & Gravel 25.00 157.00 Gray Limestone & Shale 34.00 191.00 Gray Sandstone Water Bearing 37.00 228.00 Well Grouted: Yes Grouting Method: Driven/dry grout Grouting Material Bags Additives Depth Bentonite dry granular 5.00 4.00 ft. to 162.00 ft. None Geology Remarks: Wellhead Completion: Pitless adapter Nearest Source of Possible Contamination: Drilling Machine Operator Name: Distance Direction Employment: Employee Animal yard/Feedlot 80 ft. West Contractor Type: Water Well Drilling Contractor Reg No: 70-0337

Abandoned Well Plugged:

Business Address: 9175 Cleveland, Nunica, MI, 49448
Water Well Contractor's Certification

This well was drilled under my supervision and this report is true to the best of

my knowledge and belief.

Business Name: M & W Hecksel Bros.

Signature of Registered Contractor

Date

General Remarks: Old 4" well, 198ft. deep was plugged with 14 bags of neat cement with tremie pipe from bottom up.

Other Remarks: Well Use:well used for dairy barn

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Casing Removed:

Contractor

5/18/2000 9:15 PM



Tax No:

# Water Well And Pump Record



Township: Polkton

Completion is required under authority of Part 127 Act 368 PA 1978.

Failure to comply is a misdemeanor.

County: Ottawa

Permit No:

Mall ID. 70000	1000401	,	Town/Range: 08N 14W	Section: 35	Well Status:	WSSN:	Source	e ID/Well No:			
Well ID: 70000	100216	3	Distance and D	irection from	n Road Intersec	tion:					
Elevation: 645 ft.			1\2MIS OF GARGIELD & 60TH AVE;75'W OF 60TH AVE								
Latitude: 43.0374380644			Well Owner: S	CHMIDT, R	ALPH						
Longitude: -85.93751919			Well Address:	,		ner Address:					
			14769 60TH A	VΕ	1.1	4769 60TH AV	E				
Method of Collection: Interpo	lation-Map		COOPERSVILI	LE, MI 49404	4 C	OOPERSVILL	E, MI 494	104			
Orilling Method: Cable Tool			Pump Insta			Pump Installa	tion Only	y: No			
•	Well Use: Housel			allation Date		HP:					
	Date Completed:			rer: Gould		Pump Type:					
Casing Type: Unknown	Height: 0.00	ft. below grade	Model Num			Pump Capacit		PM			
Casing Joint: Threaded & coupled Casing Fitting: Drive shoe				Length: 8		Pump Voltage					
Drive side			Drop Pipe	Diameter: 1 Seal Used		Drilling Recor	a ID:				
Diameter: 4.00 in. to 161.00 ft. dept	rh			ank Installe							
siameter. 4.00 m. to 101.00 m. dept	.11			ank mstane Relief Valve							
			Flessule N	tellel valve	ilistalleu. No						
Borehole:			v-								
50.0.0.0.											
Static Water Level: 36.00 ft. Below	Grade							Depth to			
Well Yield Test:	Yield Test Met	hod: Unknown		Formation	Description	Thi	ckness	Bottom			
Pumping level 40.00 ft. after 3.00 hrs	s. at 60 GPM		Yellow Clay	1		12.0	)	12.00			
			Blue Clay			9.00		21.00			
			Blue Clay G	Gravely		27.0	)	48.00			
Screen Installed: No	Intake: Unk	nown	Blue Clay			68.0	)	116.00			
			Blue Clay V	V/Gravel		42.0	)	158.00			
			Limestone			36.0	)	194.00			
			Sandstone	Medium Wat	er Bearing	36.0	)	230.00			
Vell Grouted: No		***************************************									
veil Grouted: No											
			Geology Re	markai							
			Geology Re	elliaiks.							
Vellhead Completion: Pitless ada	pter		_								
	p. 10.										
learest Source of Possible Contarr	nination:		Drilling Mad	chine Opera	tor Name:						
уре	Distance	Direction	Employmer	nt: Unknow	'n						
nimal yard/Feedlot	110 ft.	North									
			Contractor		nown	R	eg No: 7	0-0337			
<b>Abandoned Well Plugged:</b> No			Business N								
Reason Not Plugged:			Business A								
					Vell Contract						
	This well was drilled under my supervision and this report is true to the best of										
			my knowled	ge and belie	Г.			1			
			Signature o	f Registere	d Contractor		Date				
eneral Remarks:											
ther Remarks:											

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LHD

2/18/2000 4:07 PM